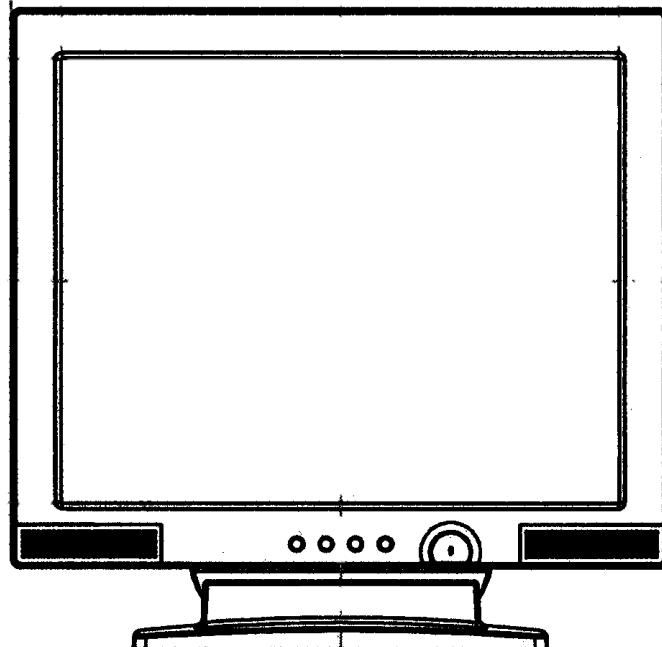


Service Manual



Model : Belinea 101536/101537

MAXDATA Systeme GmbH

Elbestr. 16

45768 Marl / Germany

Belinea 101536/101537 Service Manual

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1. PRECAUTION AND NOTICES

1.1. SAFETY PRECAUTIONS

This monitor is manufactured and tested on a ground principle that a user's safety comes first. However, improper use or installation may cause damage to the monitor as well as to the user. Carefully go over the following WARNINGS before installing and keep this guide handy.

WARNINGS:

- ◆ This monitor should be operated only at the correct power sources indicated on the label on the rear end of the monitor. If you're unsure of the power supply in your residence, consult your local dealer or power company.
- ◆ Use only the special power adapter that comes with this monitor for power input.
- ◆ Do not try to repair the monitor yourself as it contains no user-serviceable parts. This monitor should only be repaired by a qualified technician.
- ◆ Do not remove the monitor cabinet. There is high-voltage parts inside that may cause electric shock to human bodies, even when the power cord is unplugged.
- ◆ Stop using the monitor if the cabinet is damaged. Have it checked by a service technician.
- ◆ Put your monitor only in a clean, dry environment. If it gets wet, unplug the power cable immediately and consult your service technician.
- ◆ Always unplug the monitor before cleaning it. Clean the cabinet with a clean, dry cloth. Apply non-ammonia based cleaner onto the cloth, not directly onto the glass screen.
- ◆ Keep the monitor away from magnetic objects, motors, TV sets, and transformer.
- ◆ Do not place heavy objects on the monitor or power cord.

1.2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety visual inspections and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltages, wattage, etc. Before replacing any of these components read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

1.3. SERVICE NOTES

1. When replacing parts or circuit boards, clamp the lead wires around terminals before soldering.
2. When replacing a high wattage resistor (more than 1W of metal oxide film resistor) in circuit board, keep the resistor about 5mm away from circuit board.
3. Keep wires away from high voltage, high temperature components and sharp edges.
4. Keep wires in their original position so as to reduce interference.
5. Usage of this product please refer to also user's manual.

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2. SERVICE TOOL & EQUIPMENT REQUIRED

1. SIGNAL GEN.
2. MULTIMETER
3. OSCILLOSCOPE
4. SCREW DRIVER
5. IRON
6. ABSORBER
7. SOLDER
8. DUMMY LOAD (5ohm/200W)

3. SPECIFICATIONS

3.1. PRODUCT SPECIFICATIONS

LCD Panel	15.0" TFT
Power Management	Energy Star compliant VESA DPMS compatible < 3W
Displayable Resolution	XGA 1024× 768 (max.)
Pixel Dimension	0.297× 0.297mm
LCD Display Color	16.7M Color Max. (24bit)
Viewing Angle	CR \geq 10 Horizontal: -60°~+60° Vertical: -55°~+45°
Tilt	+90°, -5°
Contrast Ratio	250 : 1 (min.) 400 : 1 (typ.)
Brightness	200cd/ m ² (min.) 250 cd/m ² (typ.)
Response Time	Tr: 13 ms Tf: 27ms (typ.)
Active Display Area	304.1mm× 228.1mm
Temperature	Operating: 0°C ~ +35°C Storage: -20°C ~ +60°C
Compliance	UL, CSA, DHHS, TÜV, CE, FCC-B, VDE-B, Energy Star.
Power	Input Voltage: 100~240 Vac Consumption: 35 Watts (Max.)
Audio	1Watt(L) + 1Watt(R)

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3.2. SUPPORTING TIMING CHART

ITEM	1	2	3	4	5
TIMING	720×400@70Hz	640×480@60Hz	640×480@67Hz	640×480@75Hz	800×600@56Hz
Pixel Rate	28.322MHz	25.175MHz	30.240MHz	31.500MHz	36.000MHz
H TOTAL	31.778us	31.778us	28.571us	26.667us	28.444us
H DISPLAY	25.422us	25.422us	21.164us	20.317us	22.222us
H B-Porch	1.907us	1.907us	3.175us	3.810us	3.556us
H Width	3.813us	3.813us	2.116us	2.032us	2.000us
H Border	0.318us	0.318us	0.000us	0.000us	0.000us
V TOTAL	14.268ms	16.683ms	15.000ms	13.334ms	17.778ms
V DISPLAY	12.711ms	15.253ms	13.714ms	12.800ms	17.066ms
V B-Porch	1.112ms	1.049ms	1.114ms	0.427ms	0.626ms
Vs Width	0.064ms	0.064ms	0.086ms	0.080ms	0.057ms
V Border	0.222ms	0.254ms	0.000ms	0.000ms	0.000ms
H/V Sync	-/+	-/-	-/-	-/-	+/+
Interlace	No.	No.	No.	No.	No.

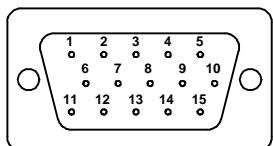
ITEM	6	7	8	9	10
TIMING	800×600@60Hz	800×600@72Hz	800×600@75Hz	832×624@74.5Hz	1024×768@60Hz
Pixel Rate	40.000MHz	50.000MHz	48.500MHz	57.280MHz	65.000MHz
H TOTAL	26.400us	20.800us	21.333us	20.112us	20.677us
H DISPLAY	20.000us	16.000us	16.162us	14.525us	15.754us
H B-Porch	2.200us	1.280us	3.232us	3.771us	2.462us
H Width	3.200us	2.400us	1.616us	1.118us	2.092us
H Border	0.000us	0.000us	0.000us	0.000us	0.000us
V TOTAL	16.579ms	13.853ms	13.333ms	13.417ms	16.666ms
V DISPLAY	15.840ms	12.480ms	12.800ms	12.552ms	15.880ms
V B-Porch	0.607ms	0.478ms	0.448ms	0.784ms	0.600ms
Vs Width	0.106ms	0.125ms	0.064ms	0.060ms	0.124ms
V Border	0.000ms	0.000ms	0.000ms	0.00ms	0.000ms
H/V Sync	+/+	+/+	+/+	-/-	-/-
Interlace	No.	No.	No.	No.	No.

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ITEM	11	12	13	14	15
TIMING	1024×768@70Hz	1024×768@75Hz			
Pixel Rate	75.000MHz	78.750MHz			
H TOTAL	17.707us	16.660us			
H DISPLAY	13.653us	13.003us			
H B-Porch	1.920us	2.235us			
H Width	1.813us	1.219us			
H Border	0.000us	0.000us			
V TOTAL	14.272ms	13.328ms			
V DISPLAY	13.599ms	12.795ms			
V B-Porch	0.513ms	0.466ms			
Vs Width	0.106ms	0.050ms			
V Border	0.000ms	0.000ms			
H/V Sync	-/-	+/+			
Interlace	No.	No.			

3.3. D-SUB CONNECTOR

D-SUB 15 PIN CONNECTOR



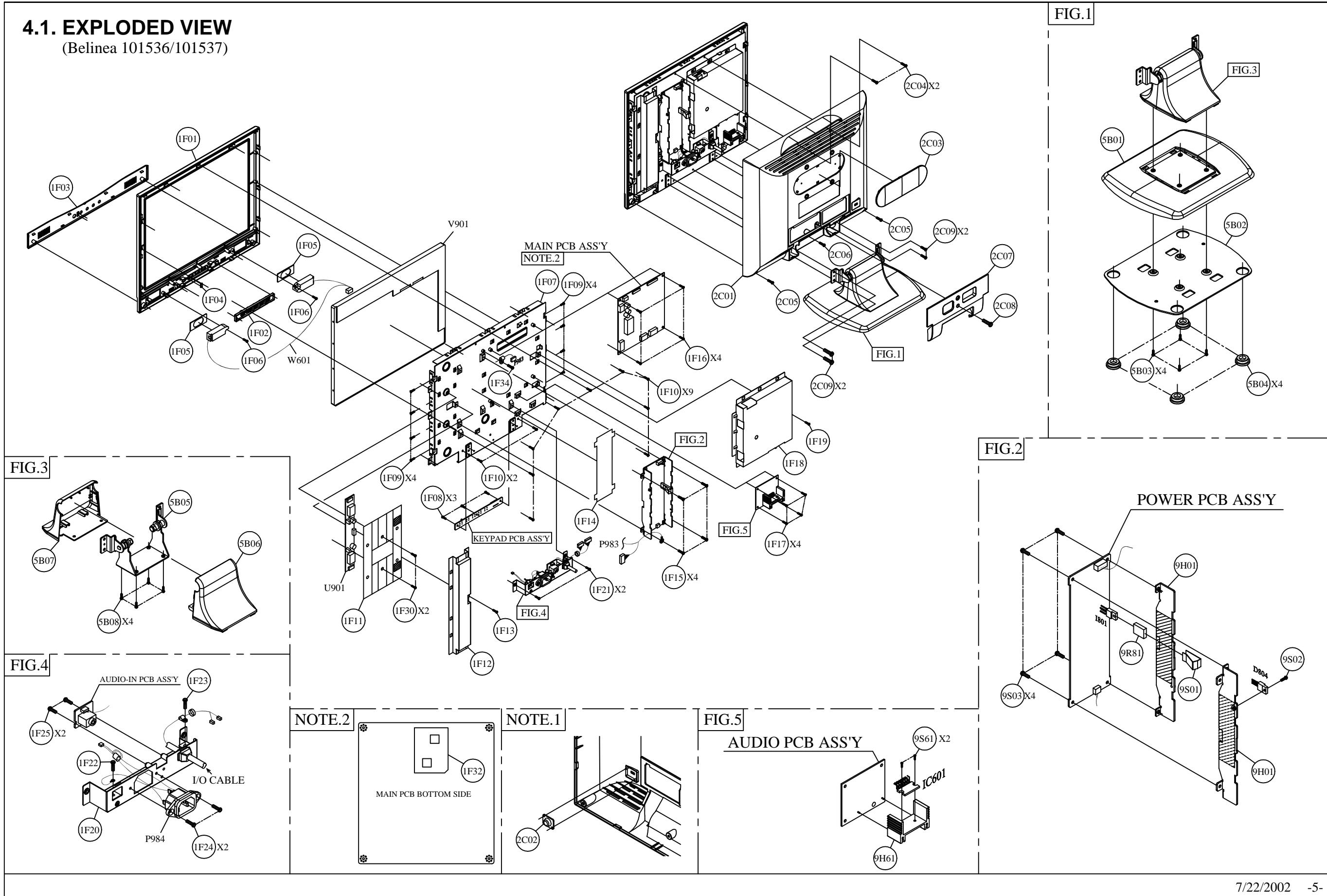
1.R	6.GND	11.NC
2.G	7.GND	12.SDA
3.B	8.GND	13.H.SYNC
4.NC	9.+5V	14.V.SYNC
5.GND	10.GND	15.SCL

SIGNAL LEVEL

CONNECTOR	SIGNAL	DESCRIPTION
R	RED	0.7vp-p(VIDEO)
G	GREEN	0.7vp-p(VIDEO)
B	BLUE	0.7vp-p(VIDEO)
H	H/SYNC	TTL positive or negative
V	V/SYNC	TTL positive or negative
SDA	DDC1/2B	TTL
SCL	DDC1/2B	TTL

4.1. EXPLODED VIEW

(Belinea 101536/101537)

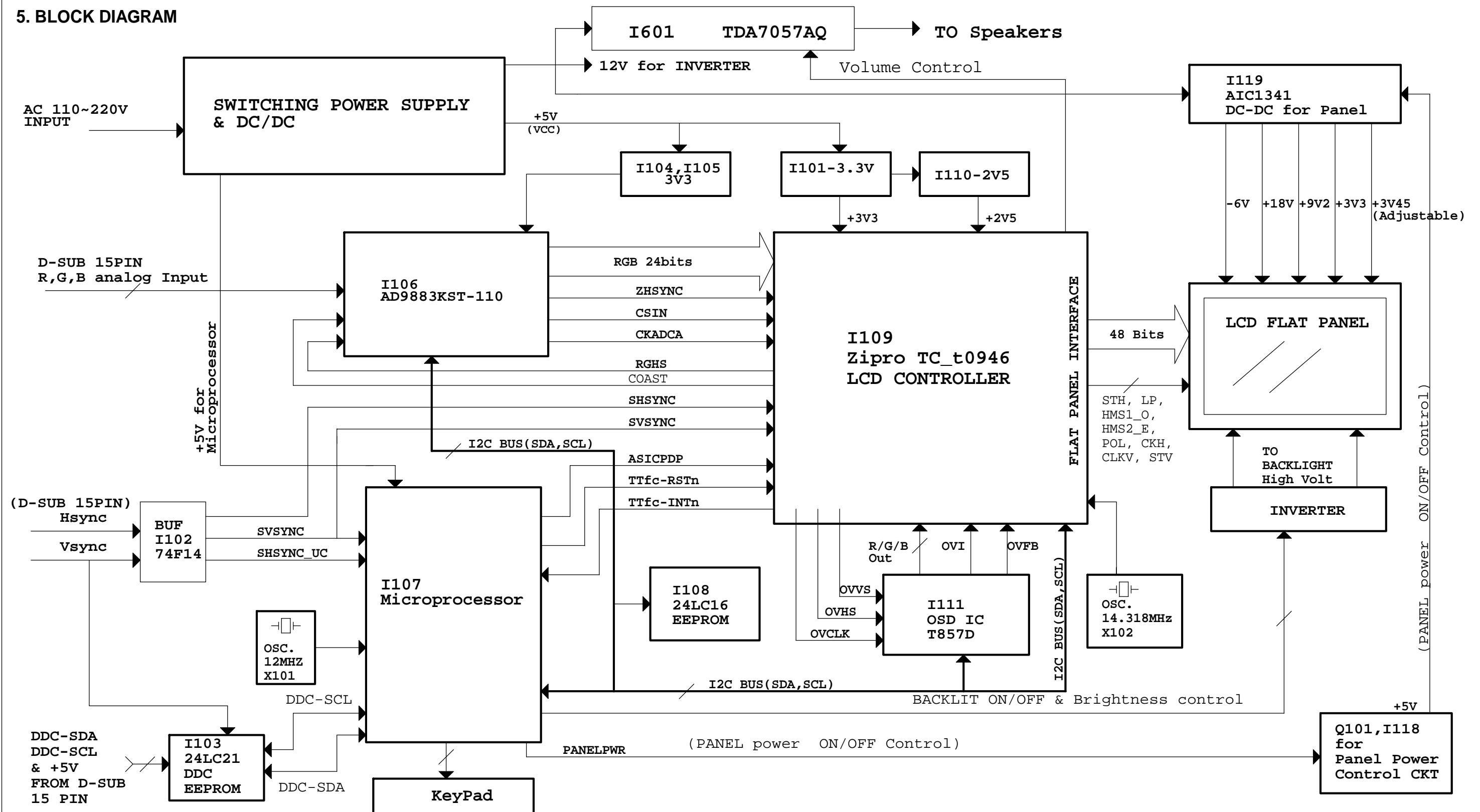


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4.2. EXPLODED VIEW PARTS LIST

Ref. No.	Source	Part No.	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1F01		2024262601	FRONT BEZEL	FRONT COVER BAYER RAL 7035	1	for Belinea 101536
1F01		2024262603	FRONT BEZEL	FRPNT COVER BAYER RAL 7035 877	1	for Belinea 101537
1F02		2044262101	FUNCTION KEY	ROUND KEY BAYER RAL 7035/P877	1	
1F03		2054252401	ORNAMENT	DOOR PANEL BAYER RAL 7035(R)	1	for Belinea 101536
1F03		2054252402	ORNAMENT	DOOR PANEL BAYER RAL 7035 877	1	for Belinea 101537
1F04		2053752301	LED INDIC.-PWR	JT166L LED LENS PMMA 94HB(R)	1	
1F05		2061252400	SPONGE	36X23X3t EVA	2	
1F06		2084730082	SCREW,BND T+	M3X8(BND T+)	2	
1F07		2071859100	BRACKET, FIX	JT166L LCD B'KT SECC t=1.0	1	
1F08		2082730062	SCREW,BND+	M3X6(BND+)	3	
1F09		2080002200	SCREW,SPE	L355 M3x6 DH NICKEL-PLATED	8	
1F10		2084730082	SCREW,BND T+	M3X8(BND T+)	11	
1F11		2072450100	INSULATOR	JT166E PC 185LX25.3WX14.6HX.2t	1	
1F12		2071659501	SHIELD PLATE	SPTE t=0.3mm	1	
1F13		2082630062	SCREW	M3X6 P=0.5	1	
1F14		2072451900	INSULATOR	NYLAR t=0.2mm 94V0	1	
1F15		2081430062	SCREW,(WASH)	M3X6 P=0.5(TOOTH WASHER)	4	
1F16		2082630062	SCREW	M3X6 P=0.5	4	
1F17		2082730062	SCREW,BND+	M3X6(BND+)	4	
1F18		2071662100	SHIELD PLATE	SPTE t=0.3mm SLIM PANEL CPT	1	
1F19		2082630062	SCREW	M3X6 P=0.5	1	
1F20		2071960200	METAL FITTG	L355 SECC t=0.8	1	
1F21		2081430082	SCREW,(WASH)	M3X8 P=0.5(TOOTH,WASHER)	2	
1F22		2085740082	SCREW,B OTW+	SCREW B OTW+ M4X8	1	
1F23		2085740082	SCREW,B OTW+	SCREW B OTW+ M4X8	1	
1F24		2080002300	SCREW,SPE	L355 M3*8 DH NICKEL-PLATED	2	
1F25		2082630062	SCREW	M3X6 P=0.5	2	
1F30		2082630062	SCREW	M3X6 P=0.5	2	
1F32		2072453400	INSULATOR	JT166L PVC 0.3t	1	
1F34		2085730062	SCREW,B OTW+	3X6(+) SWRM-3 ZMC2-C	1	
2C01		2022259101	BABI BACK	BACK BAYER RAL 7035	1	for Belinea 101536
2C01		2022259103	BABI BACK	BACK BAYER RAL7035 PANTONE877	1	for Belinea 101537
2C02		2071958300	METAL FITTG	VE170 KENSINGTON	1	
2C03		2054252101	ORNAMENT	BELINEA LOGO BAYER RAL 7035	1	for Belinea 101536
2C03		2054252102	ORNAMENT	BELINEA LOGO BAYER RAL7035 877	1	for Belinea 101537
2C04		2082630062	SCREW	M3X6 P=0.5	2	
2C05		2084740102	SCREW,BND T+	M4X10(BND T+)	2	
2C06		2084730082	SCREW,BND T+	M3X8(BND T+)	1	
2C07		2027255501	DUST COVER	BACK COVER BAYER RAL 7035	1	for Belinea 101536
2C07		2027255503	DUST COVER	BACK COVER BAYER RAL 7035 877	1	for Belinea 101537
2C08		2082630062	SCREW	M3X6 P=0.5	1	
2C09		2085740082	SCREW,B OTW+	SCREW B OTW+ M4X8	4	for Belinea 101536
2C09		2087340086	SCREW,B SPW+	M4X8 B SPW+ φ 3. 96 NYLON	4	for Belinea 101537
5B01		2028255101	STAND	STAND BAYER RAL 7035	1	for Belinea 101536
5B01		2028255103	STAND	STAND BAYER RAL7035 877	1	for Belinea 101537
5B02		2071961200	METAL FITTG	JT166L STAND PLATE SECC t=2.0	1	
5B03		2084740082	SCREW,BND T+	M4X8(BND T+)	4	
5B04		2039802301	FOOT PAD	CR 420x φ 16.5x5.8	4	
5B05		2106653100	HINGE	JT166L HINGE -5'~20' W/ LOCK	1	
5B06		2027255401	DUST COVER	STAND BACK BAYER RAL 7035	1	for Belinea 101536
5B06		2027255403	DUST COVER	STAND BACK BAYER RAL 7035 877	1	for Belinea 101537
5B07		2027255601	DUST COVER	STAND FRONT BAYER RAL 7035	1	for Belinea 101536
5B07		2027255603	DUST COVER	STAND FRONT BAYER RAL 7035 877	1	for Belinea 101537
5B08		2085740162	SCREW,B OTW+	4x16(+) SWRM-3 ZMC2-C	4	
9H01		2072258100	HEAT SINK	AL-6063S t=1.5mm	2	
9H61		2072250100	HEAT SINK	A6063S-T5	1	
9R81		2429150100	TUBE,SILICON	JT156D2 TO-220ST 0.4mm	1	
9S01		2105250700	SPRING PLATE	SUS 301	1	
9S02		2084730082	SCREW,BND T+	M3X8(BND T+)	1	
9S03		2084730082	SCREW,BND T+	M3X8(BND T+)	4	
9S61		2084730102	SCREW,BND T+	M3X10(BND T+)	2	

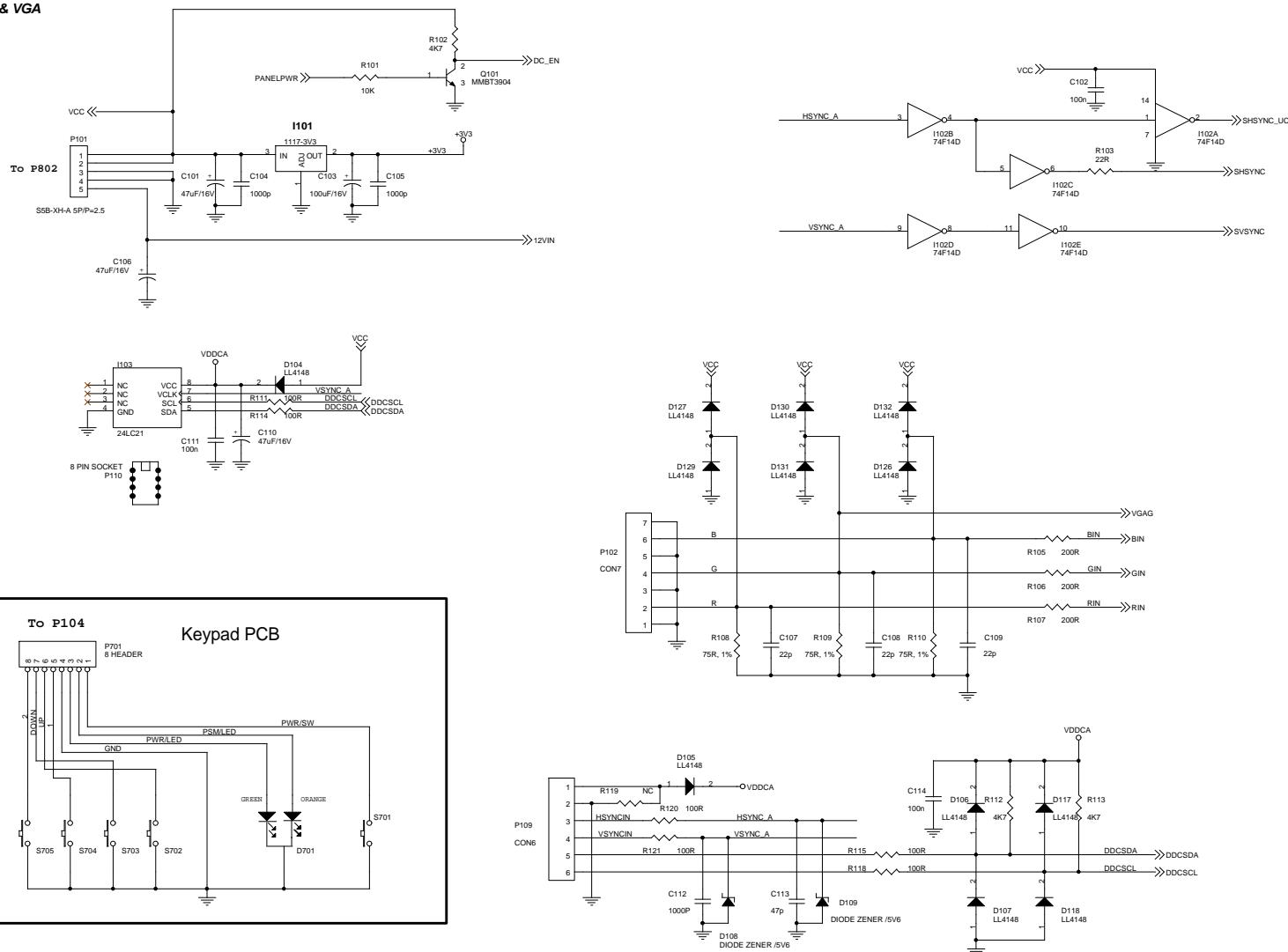
5. BLOCK DIAGRAM



Belinea 101536/101537 LCD Monitor Block Diagram

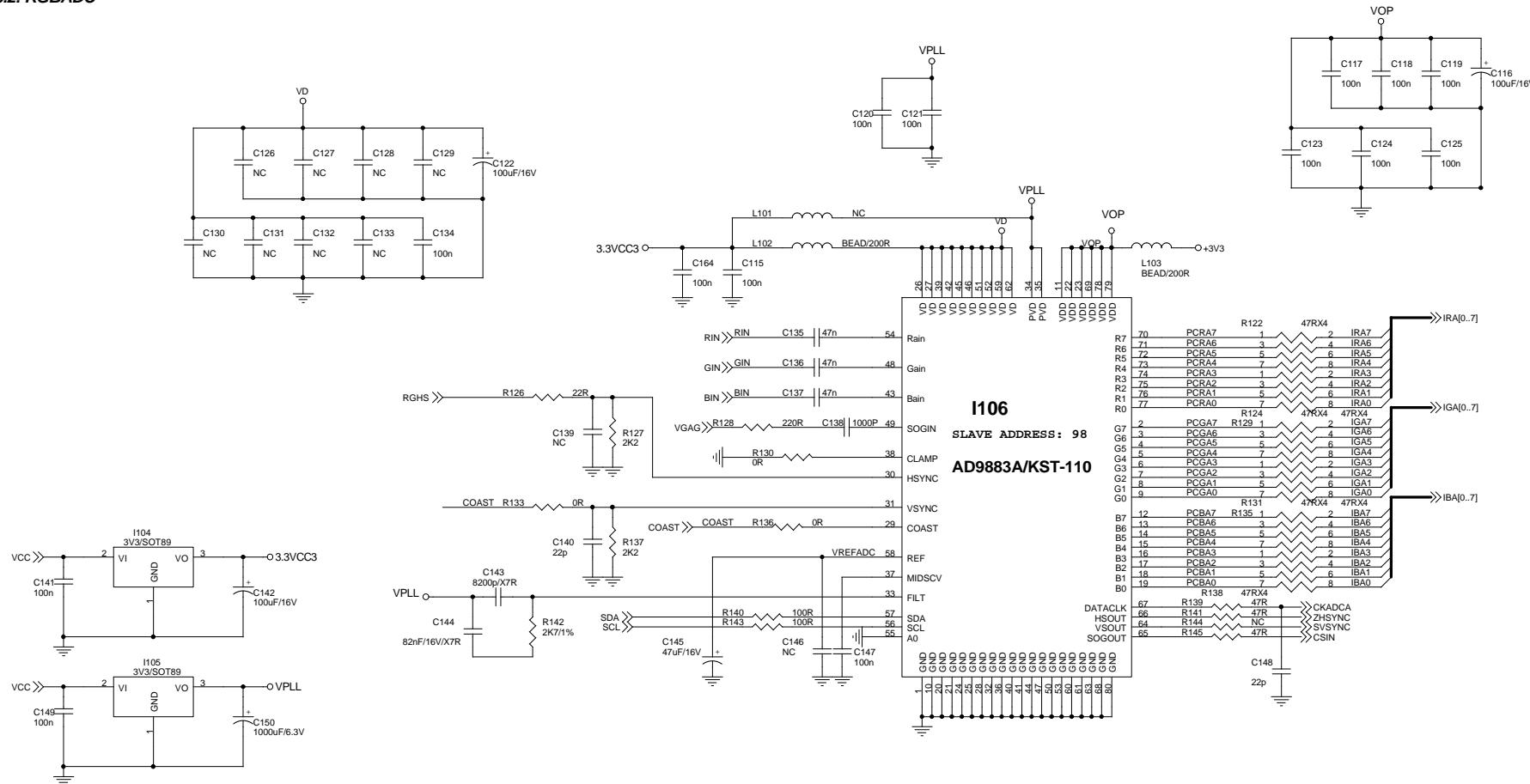
6. SCHEMATIC DIAGRAM

6.1. POWER & VGA



- (1) SMD capacitor - temperature is 85°C & voltage is 50V, if not indicated.
- (2) SMD resistor - power rating is 1/10W , if not indicated.
- (3) AL-EL capacitor - temperature is 105°C , if not indicated.

6.2. RGBADC



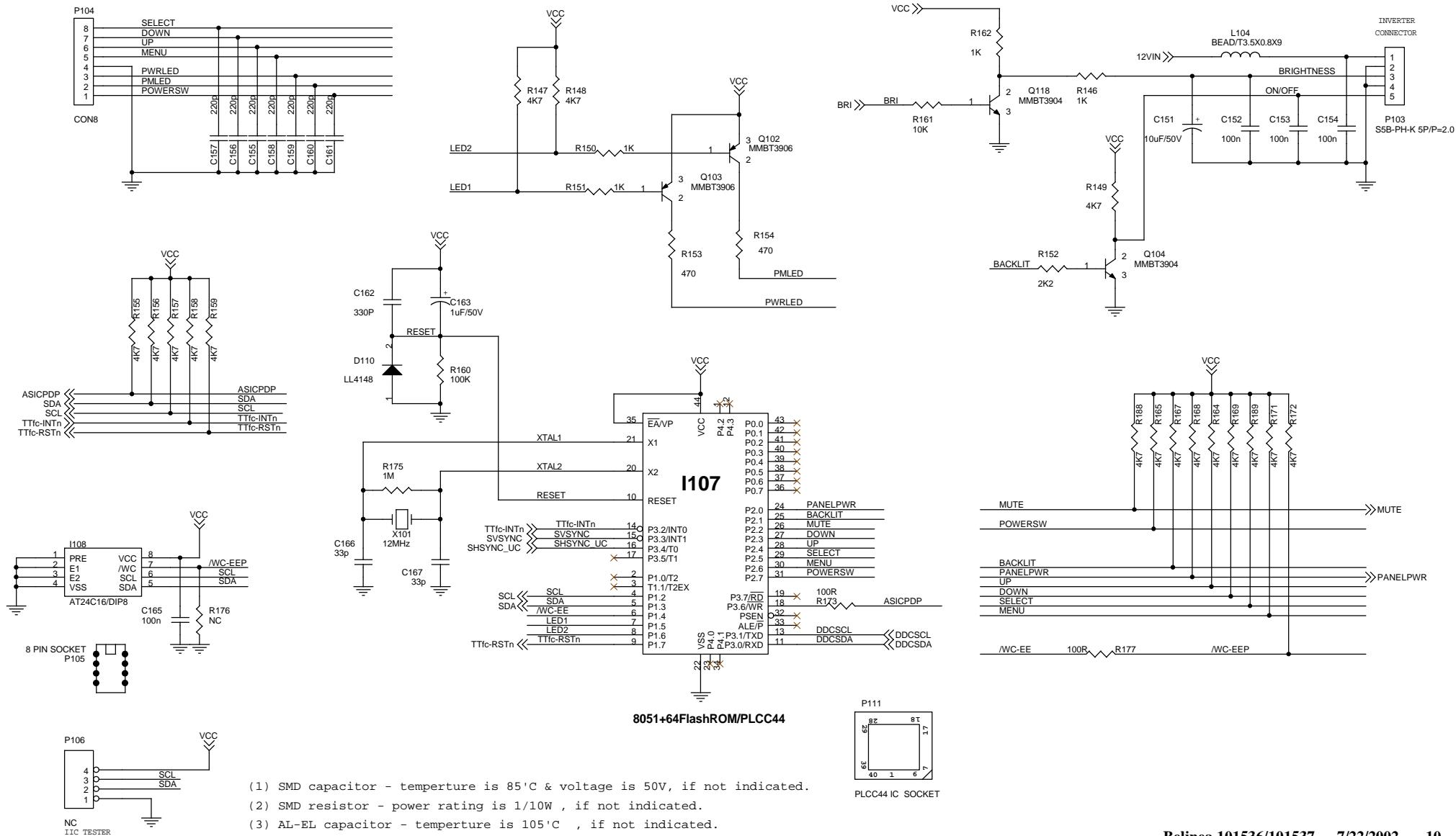
(1) SMD capacitor - temperature is 85°C & voltage is 50V, if not indicated.

(2) SMD resistor - power rating is 1/10W , if not indicated.

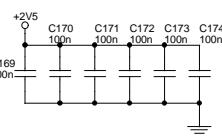
(3) AL-EL capacitor - temperature is 105°C , if not indicated.

6.3. uC & CON

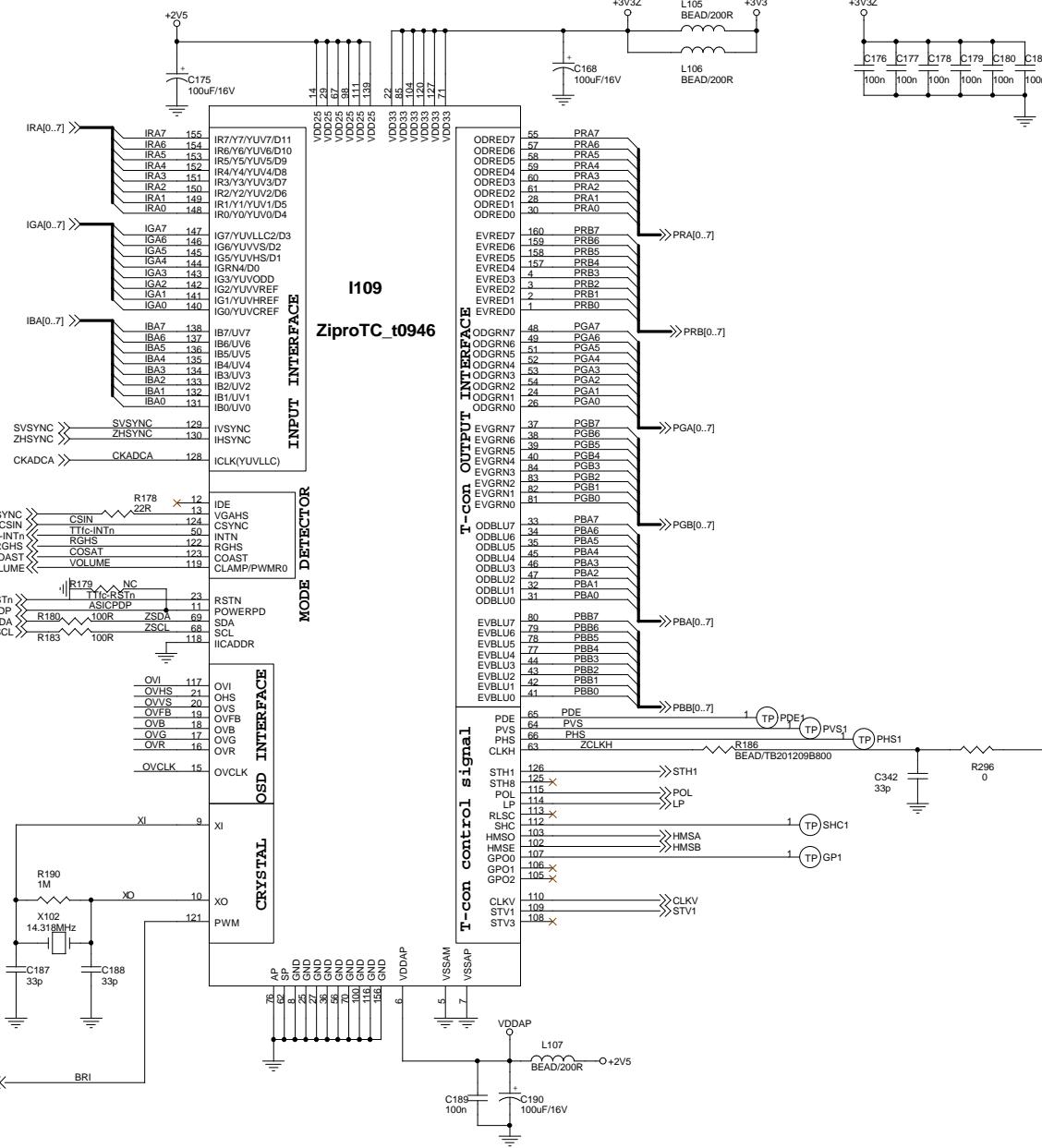
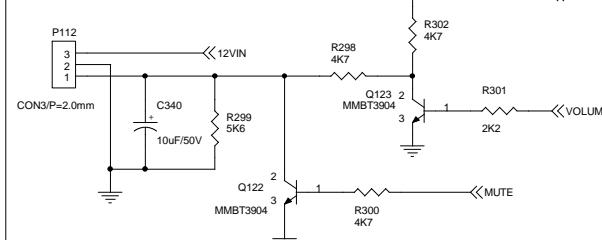
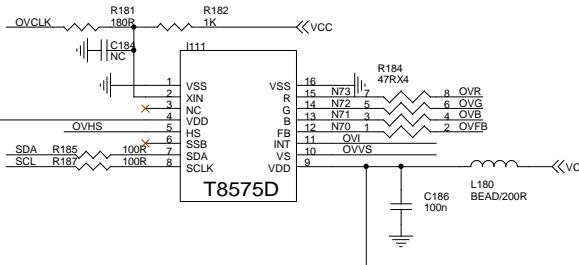
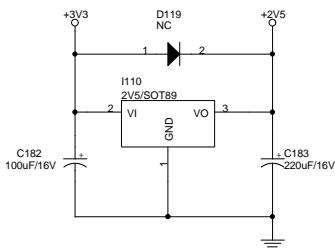
KEY MATRIX



6.4. ZiproTC_t0946



Cap. needed to Close to IC Pin

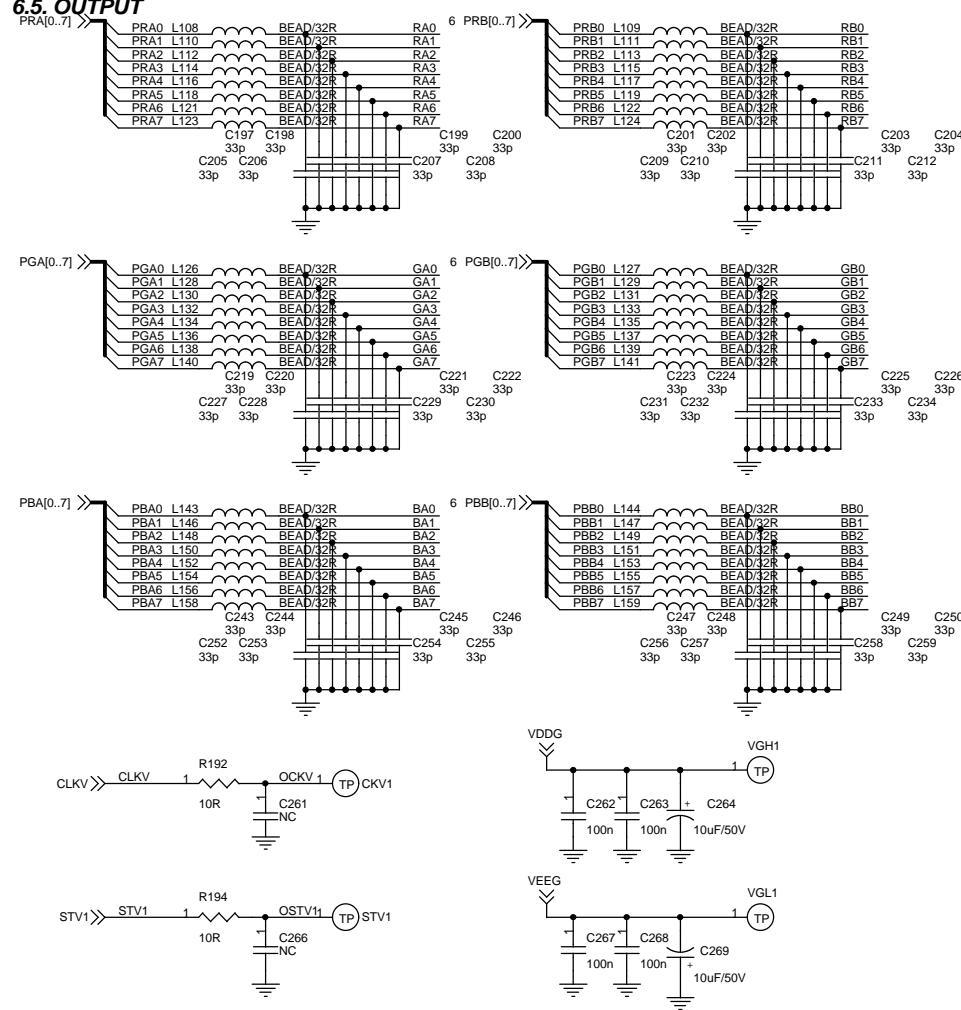


(1) SMD capacitor - temperature is 85°C & voltage is 50V, if not indicated

(2) SMD resistor - power rating is 1/10W , if not indicated

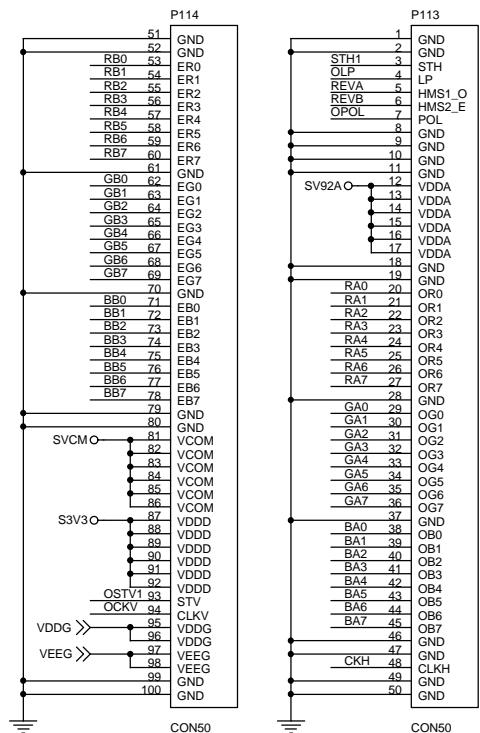
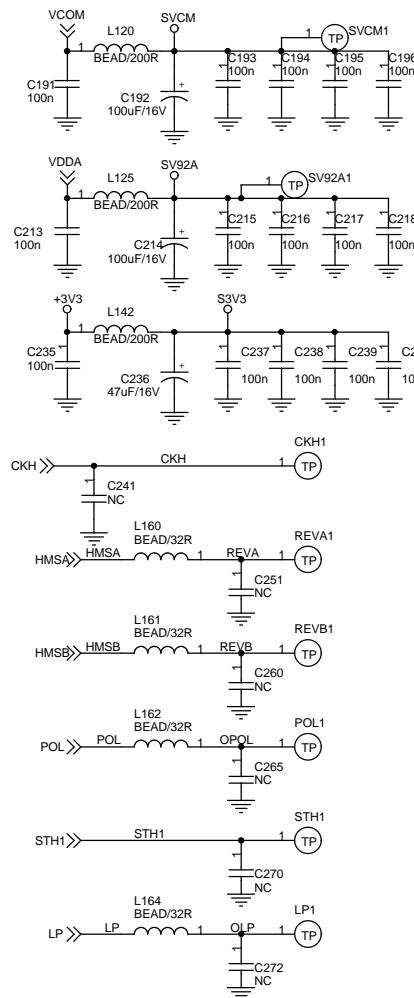
(3) AL-EL capacitor - temperture is 105°C , if not indicated.

6.5. OUTPUT



Remark: VDDA: +9V2(+/- 0.3V) VEEG: -6V(+/- 0.6V)

VDDG: +18V(+/- 1V) VCOM: +3V45(+/- 0.5V) - Adjustable

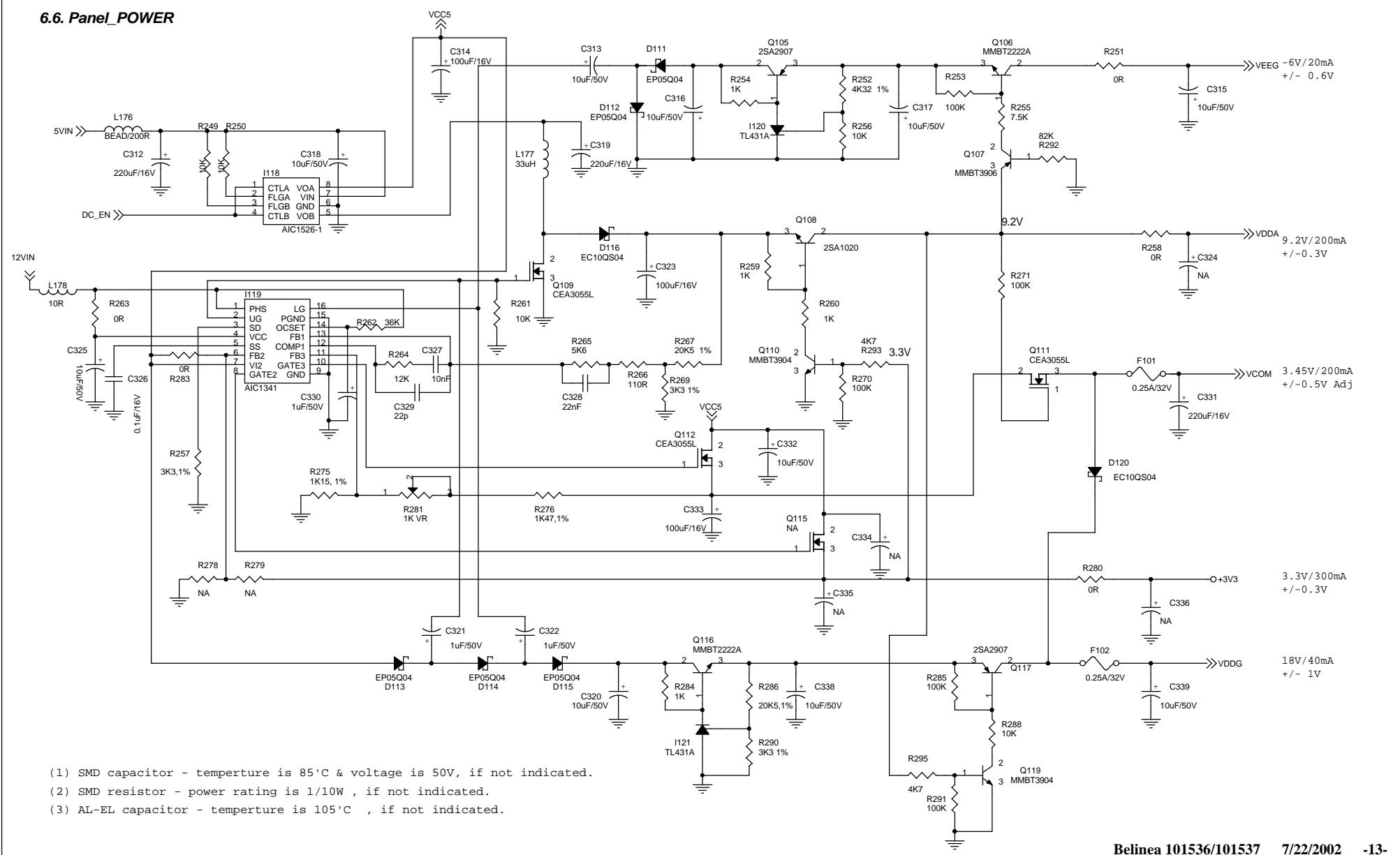


(1) SMD capacitor - temperature is 85'C & voltage is 50V, if not indicated.

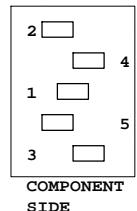
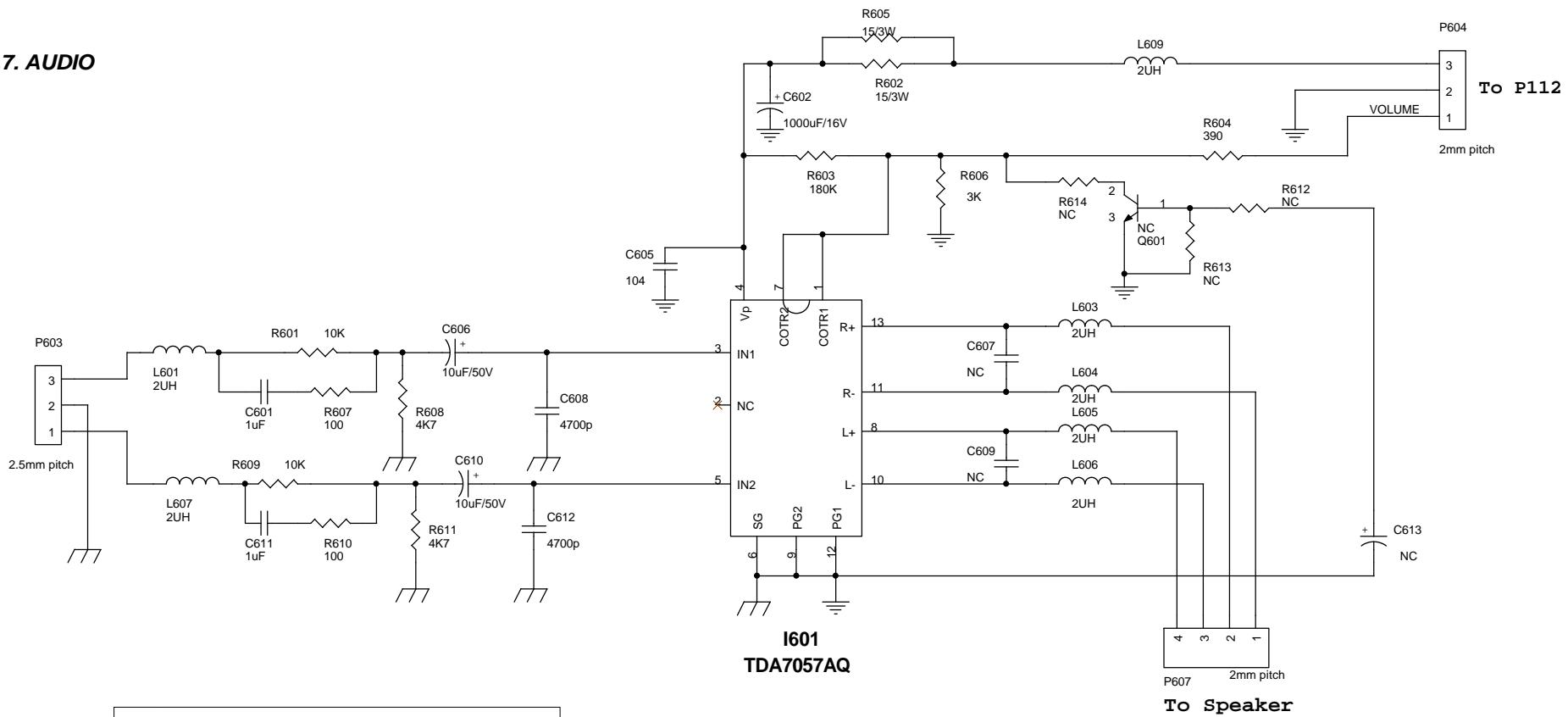
(2) SMD resistor - power rating is 1/10W , if not indicated.

(3) AL-EL capacitor - temperature is 105'C , if not indicated.

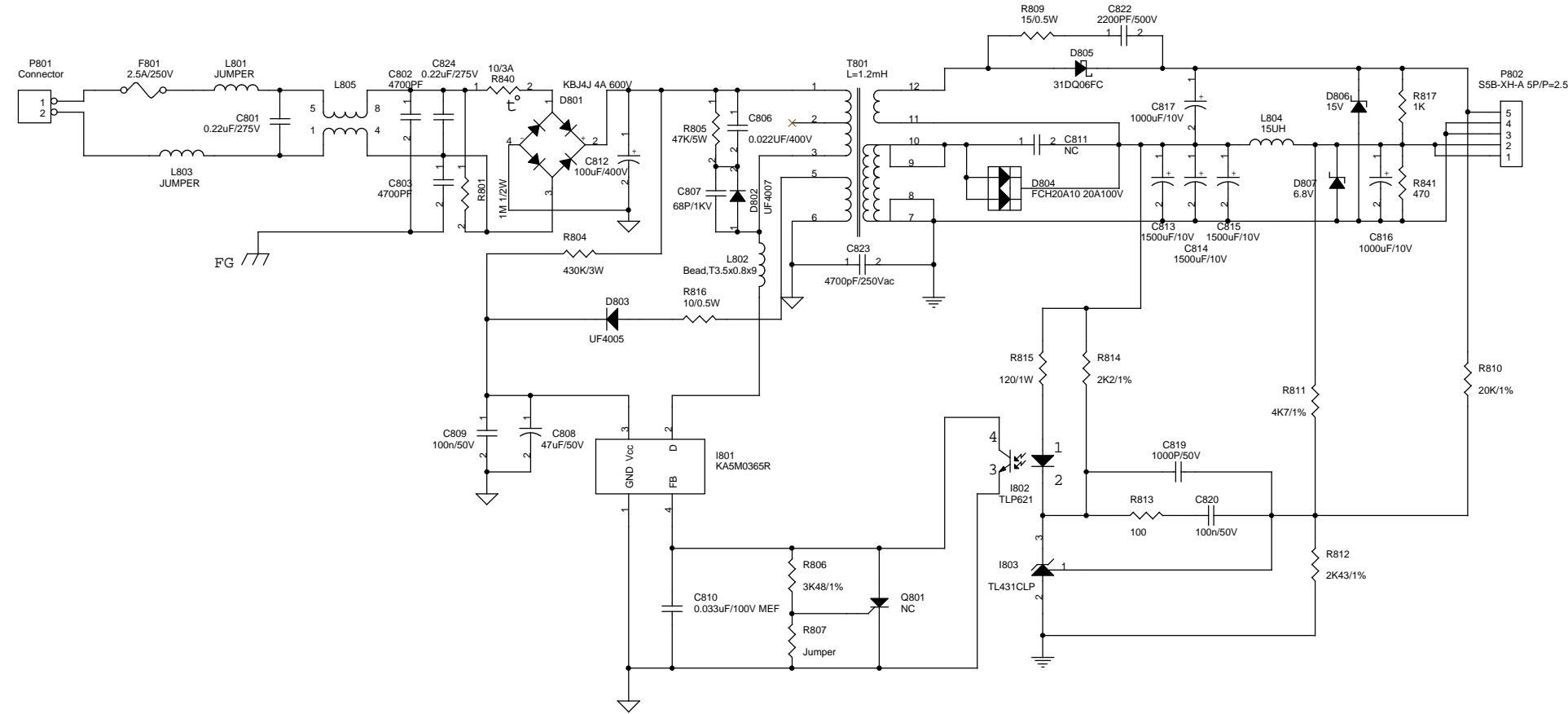
6.6. Panel_POWER



6.7. AUDIO



6.8. AC-DC POWER



(1) Resistor - power rating is $1/8W$, if not indicated

(2) AL-EL capacitor - temperture is 105'C , if not indicated.

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7. WORKING THEOREM

A. DC-DC CONVERTER

This block provides adjustable output voltages of 9.2V, -6V, 18V and 3 to 4V for the panel.

It consists of a PWM IC I119 (AIC 1341CS) and power switch IC I118 (AIC 1526-1).

When DC_EN signal is high, then I118 is activated and sends one signal to activate I119. At this time, I119 will send 200KHz 12V PWM to Q109 , which is connected with L177, Q109. D116 and C323, to boost 5V to 9.2V. And I119 offers the adjustable voltage of 3V to 4V. By sending out pulses from pin 2 and pin 16 of I119 to double voltage circuit consisting of C313, D112, D111and C316, leaner regulator with Q105 would output -6V. 18V output is created , according to the rule of -6V creation.

For protection portion, I118 offers OCP protection and I119 offers OPP and OCP protections. F101 and F102 will be open as soon as short-circuit protection occurs of 3V to 4V and 18V.

B. A/D converter

The ADC is to convert RGB analog signal to digital signal that scaling chip can acknowledge.

The AD9883A is a complete 8-bit 110 MSPS monolithic analog interface optimized for capturing RGB graphic signal, a +3.3V power supply is necessary. Its 110 MSPS encode rate capability and full-power analog Bandwidth 300MHz supports display resolutions of up to 1280x1024 at 60Hz.

A clamp signal is generated internally or may be provided through the CLAMP input pin. This device is fully programmable via a two-wire serial port.

The HSYNC input receives a logic signal and provides the frequency reference for pixel clock generation.

The clock generator COAST input may be used to stop synchronizing with HSYNC and continue producing a clock at its present frequency and phase.

The CLAMP logic input may be used to define the time during which the input signal is clamped to GND, establishing a black reference.

When the Power Down control input is bringing to low, AD9883A is put into a very low power dissipation mode, all the output buffers are placed in a high-impedance state.

C. Scaling controller

The scaling IC is to converts the input signal ranging from VGA to XGA into XGA resolution that panel can acknowledge. ZiproTC-T0946 is a highly integrated system on a chip that contains an OSD logic and a timing control circuit for source/gate drivers of XGA panel. Including an embedded hardware for display mode detection and an auto adjustment function provides automatic frequency, phase, H/V position and white balance tuning at any screen condition.

The analog input RGB signals are first sampled by three channels of 8-bit A/D converters, and the 24-bit RGB data are then fed into the ZiproTC-T0946. The chip T0946 is capable of performing automatic detection of the display resolution and timing of input signals generated from various PC graphic cards. No special driver is required for the timing detection, nor any manual adjustment. The T0946 then automatically scales the input image to fill the full screen of the LCD monitor. The T0946 can interface with TFT LCD panels from various manufacturers by generating either 24-bit or 48-bit RGB signal to the LCD panel based upon the timing parameters saved in the EEPROM.

The T0946 implements four advanced display technologies:

1. Advanced mode detection and auto-calibration without any external CPU assist
2. Advanced programmable interpolation algorithm
3. Stand-alone mode support, and
4. Advanced true color support with both dithering and frame modulation.

The T0946 also provides “plug-and-play” features to the TFT LCD monitor solution. To be truly

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plug-and-display, the T0946 performs automatic input mode detection and auto phase calibration, so the LCD monitor can ensure that the A/D converters' sample clock is precisely synchronized with the input video data, and to preserve the highest image bandwidth for the highest image quality. Furthermore, the T0946 can generate output video even when the input signal is beyond the specifications or no input signal is fed.

The panel interface consists of 48-bit panel data bus, Start pulse(STH1) and Clock (CLKH), Polarity(POL)/Latch pulse(LP) for source driver IC ,Start pulse(STV1) and Clock(CLKV) for gate driver IC, and Data inversion control (HMSO/HMSE) for odd/even pixel bus and the power supply (+3.3V,+3.45V<adjustable>,+9.2V,+18Vand-6V) for panel driver IC use.

The chip enters into power down status by setting POWERDN pins to High. The system returns to normal after POWERDN to Low. In power down status, all circuits are set to off except the mode detection circuit which is always working. The mode detection circuit detects the presences, polarity, and frequencies of HS, VS, and DE.

The BRI signal (pin121 of T0946) is for inverter output current control and the VOLUME signal (pin 119 of T0946) is to control the output amplitude of the audio .

D. Inverter

In order to drive the CCFLs embedded in the panel module, there is a ROYER inverter to convert the input 12V up to hundreds of AC voltage output.

The inverter is formed by symmetric circuitry, in order to drive the separate lamp modules.

The input stage consists of a PWM controller, buck choke, and switching MOSFET to convert DC input into AC output.

The output stage consists of a tuning capacitor, transformer, push-pull transistor pair to boost ac output up to hundreds of voltage.

And one resister is serial to lamp for output current feedback.

A 5-pin connector is the only interface to control the inverter.

Pin 1 is 12V input, pin 2/4 is the returns, pin 3 is the control of output current, and pin 5 is the enable/disable control.

E. Audio amplifier

The TDA7057AQ is a stereo BTL output amplifier with two DC volume control stages, designed for TV and monitors, but also suitable for batter-fed portable recorders and radios.

In conventional DC volume control circuits the control or input stage is AC coupled to the output stage via external capacitors to keep the offset voltage low.

In the TDA7057AQ the two DC volume control stages are integrated into the input stages so that no coupling capacitors are required and yet a low offset voltage is maintained. Also the minimum supply voltage remains low.

The BTL principle offers the following advantages:

- Lower peak value of the supply current
- The frequency of the ripple on the supply voltage is twice the signal frequency.

Consequently, a reduced power supply with smaller capacitors can be used which results in cost reductions.

For portable applications there is a trend to decrease the supply voltage, resulting in a reduction of output power at conventional output stages. Using the BTL principle increases the output power.

The maximum gain of the amplifier is fixed at 40.5dB.

The DC volume control stages have a logarithmic control characteristic. Therefore, the total gain can be controlled from 40.5dBto -33 dB.

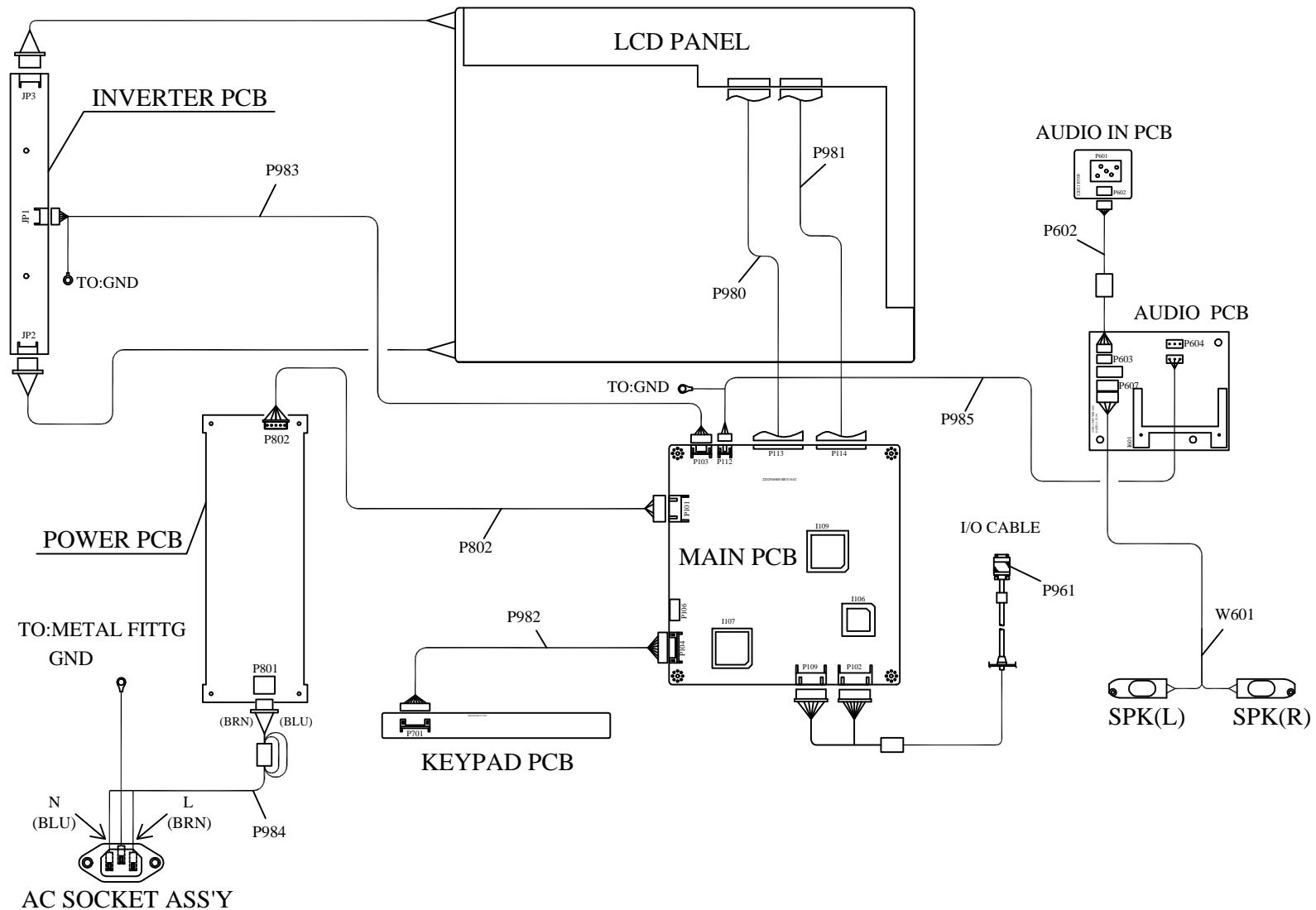
If the DC volume control voltage falls below 0.4V, the device will switch to the mute mode.

The amplifier is short-circuit proof to ground, Vp and across the load. Also a thermal protection circuits is implemented. If the crystal temperature rises above +150°C the gain will be reduced, thereby reducing the output power.

Special attention is given to switch-on and switch-off clicks, low HF radiation and a good overall stability.

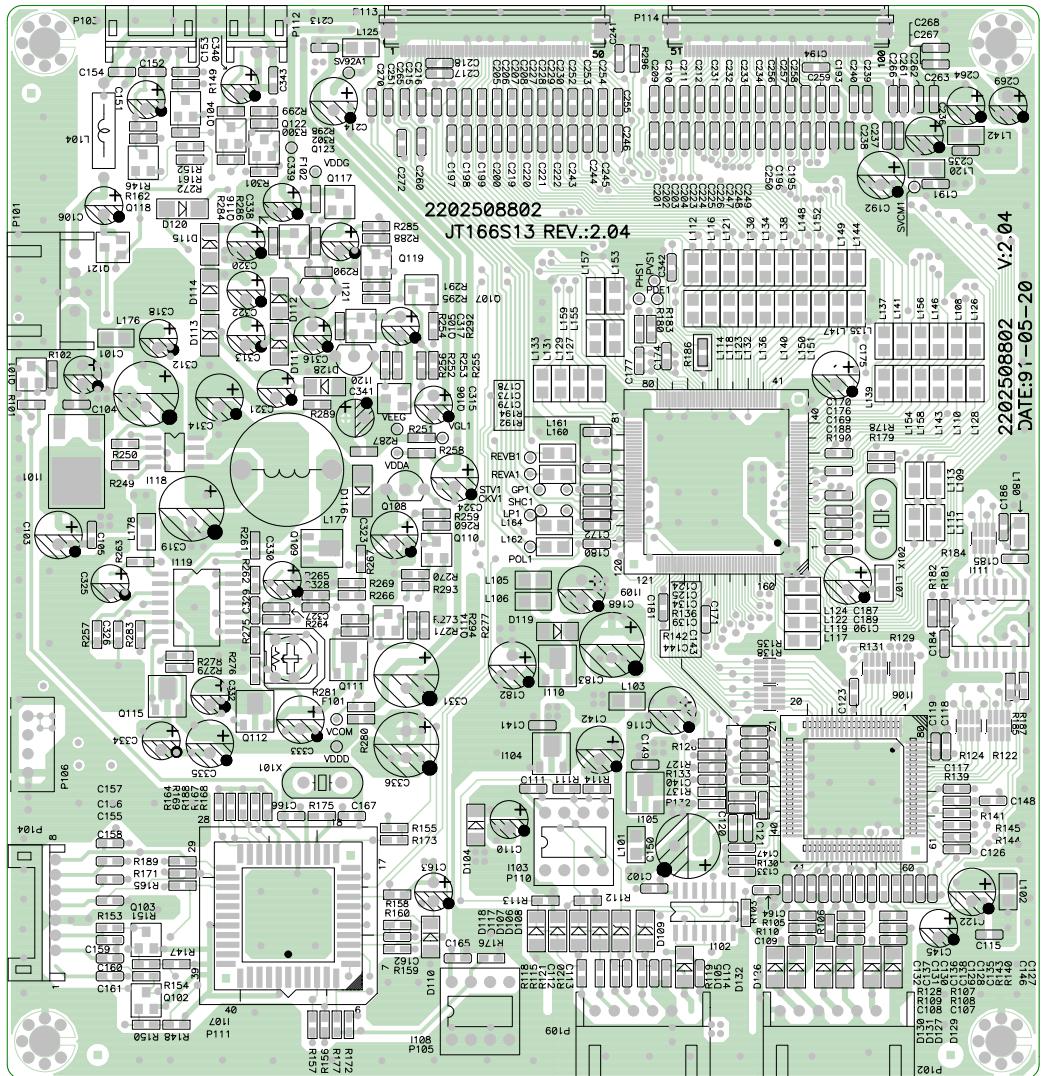
8. WIRING DIAGRAM

(Belinea 101536/101537)

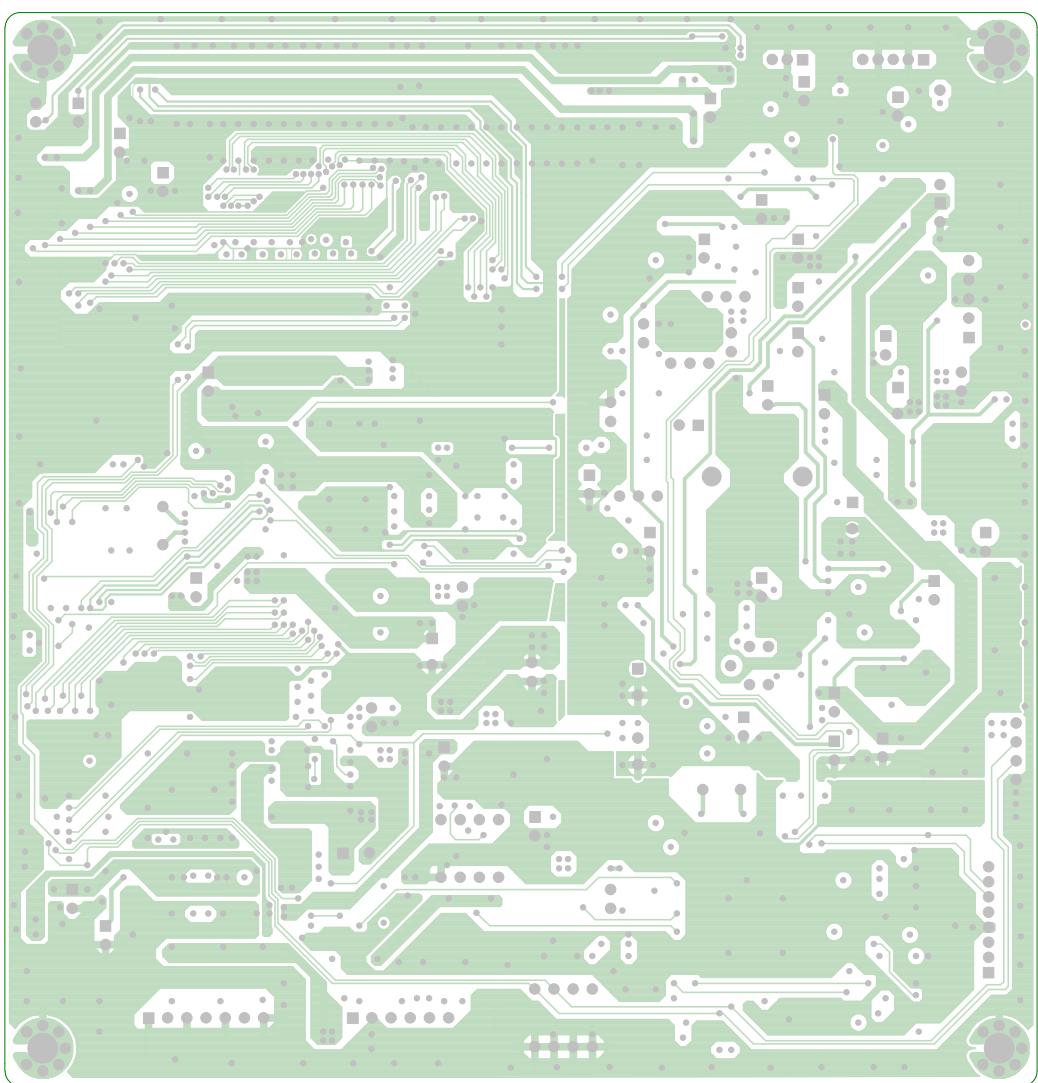


9. PCB LAYOUT

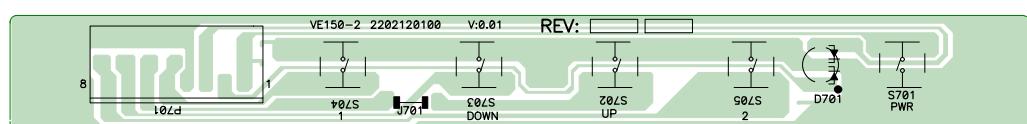
9.1. MAIN PCB TOP VIEW



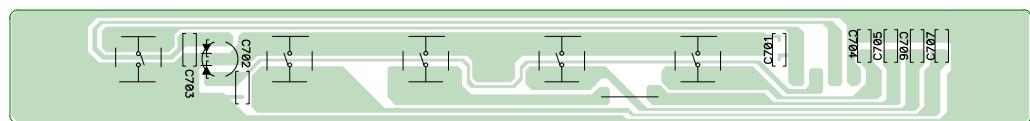
9.2. MAIN PCB BOTTOM VIEW



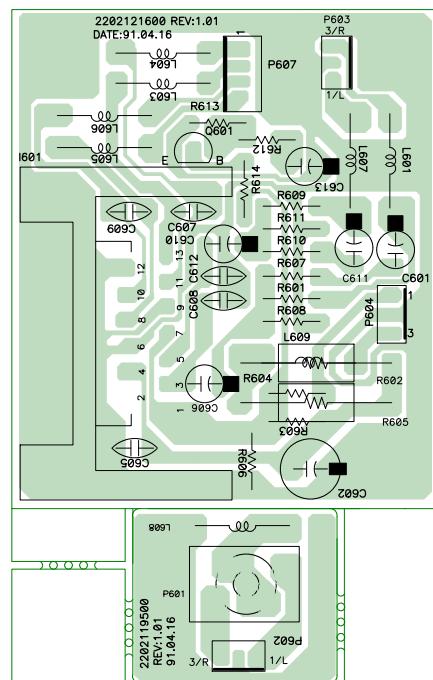
9.3. CON PCB TOP VIEW



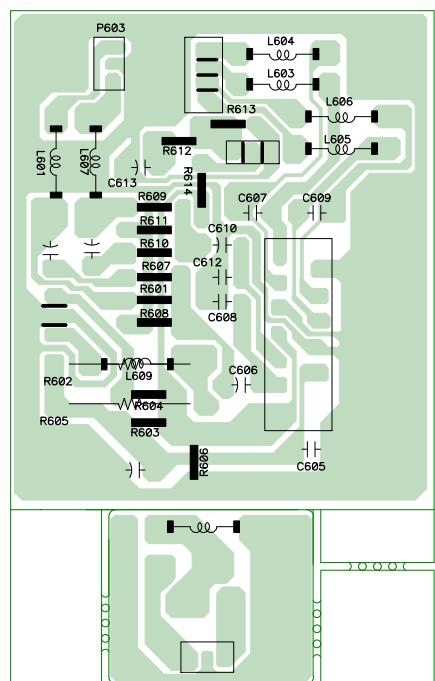
9.4. CON PCB BOTTOM VIEW



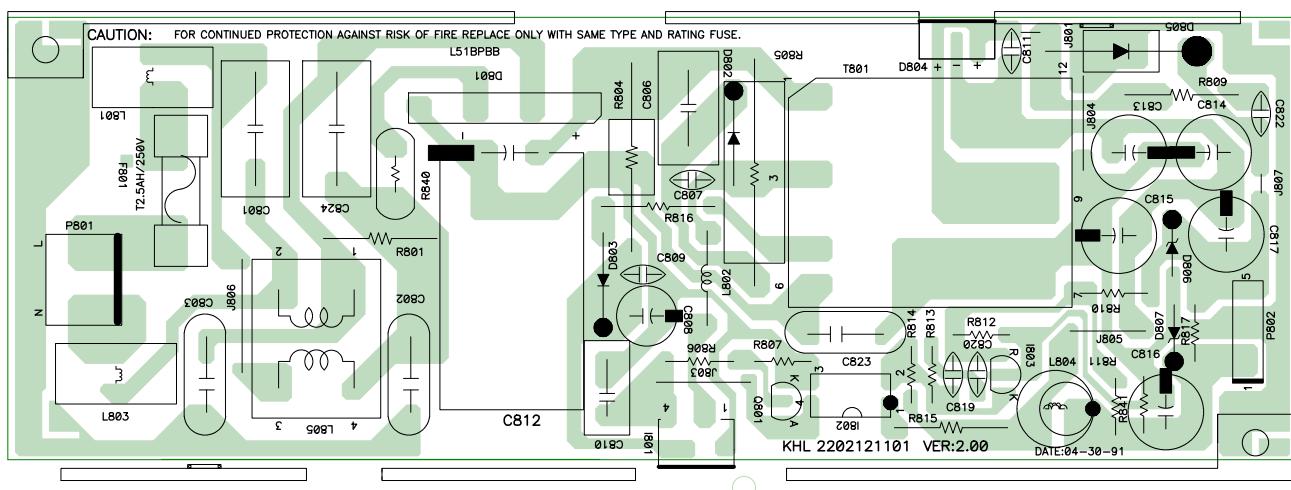
9.5. AUDIO & IN PCB TOP VIEW



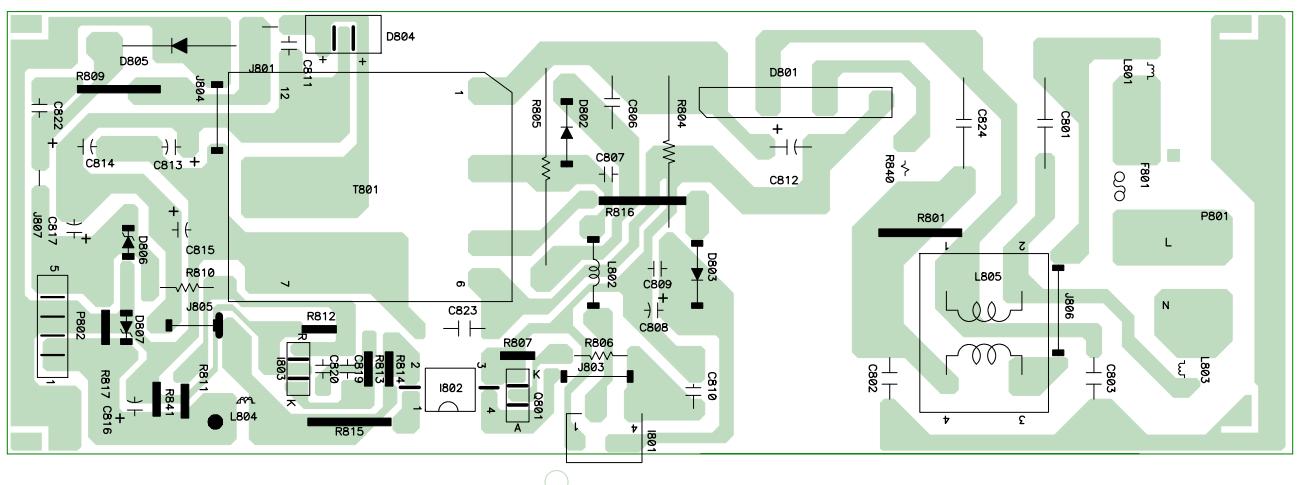
9.6. AUDIO & IN PCB BOTTOM VIEW



9.7. POWER PCB TOP VIEW

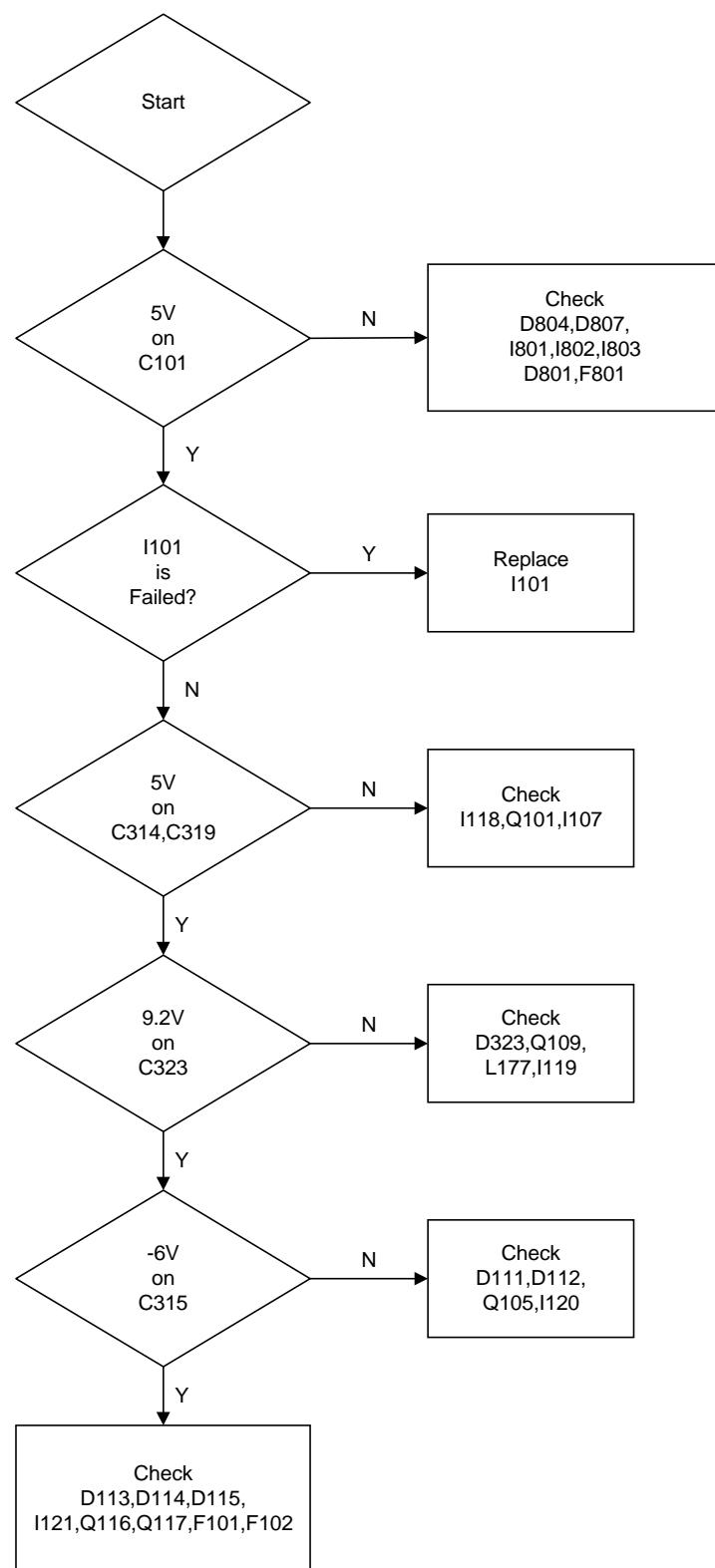


9.8. POWER PCB BOTTOM VIEW



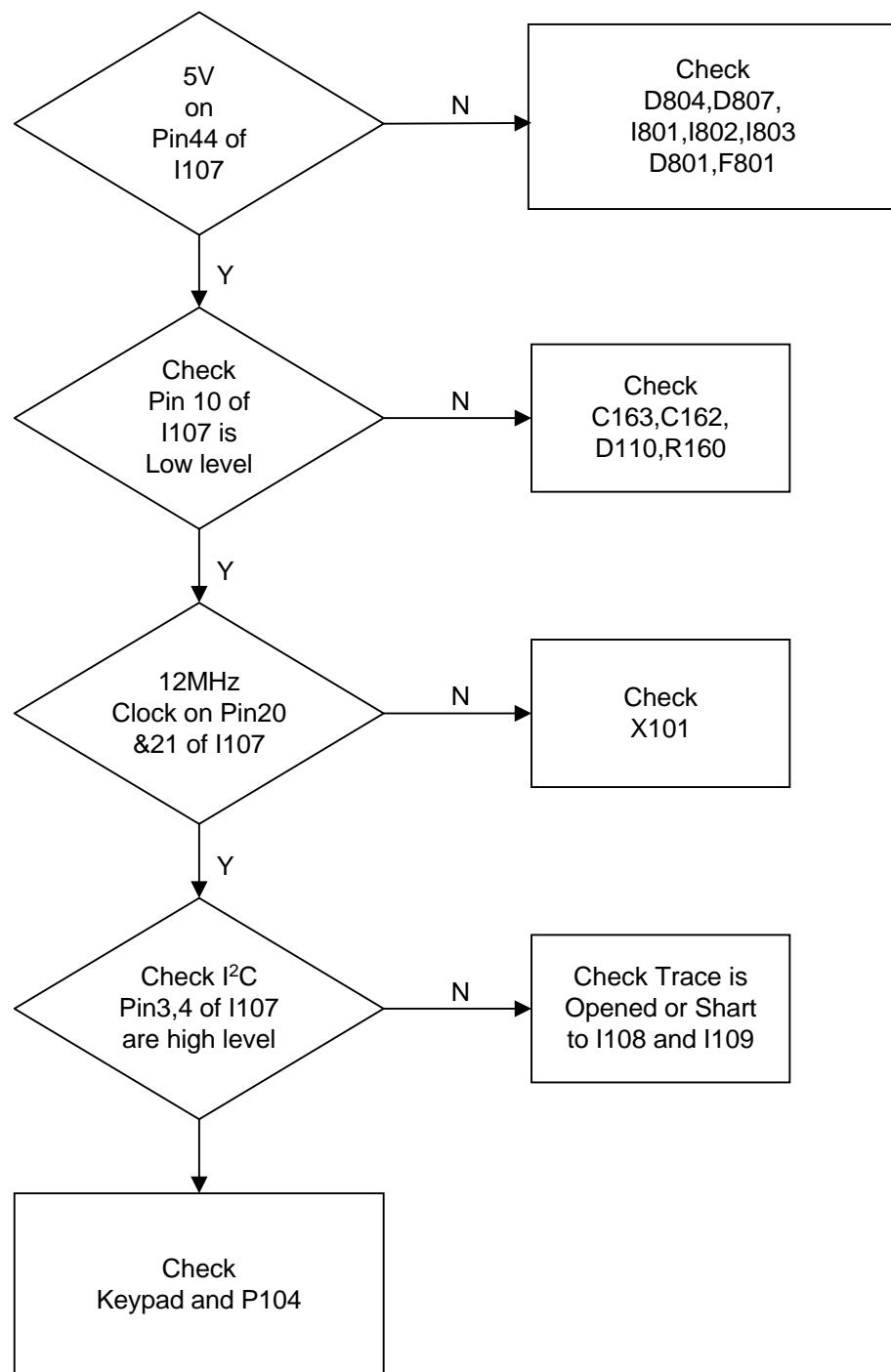
10. TROUBLE SHOOTING FLOW CHART

10.1. NO POWER



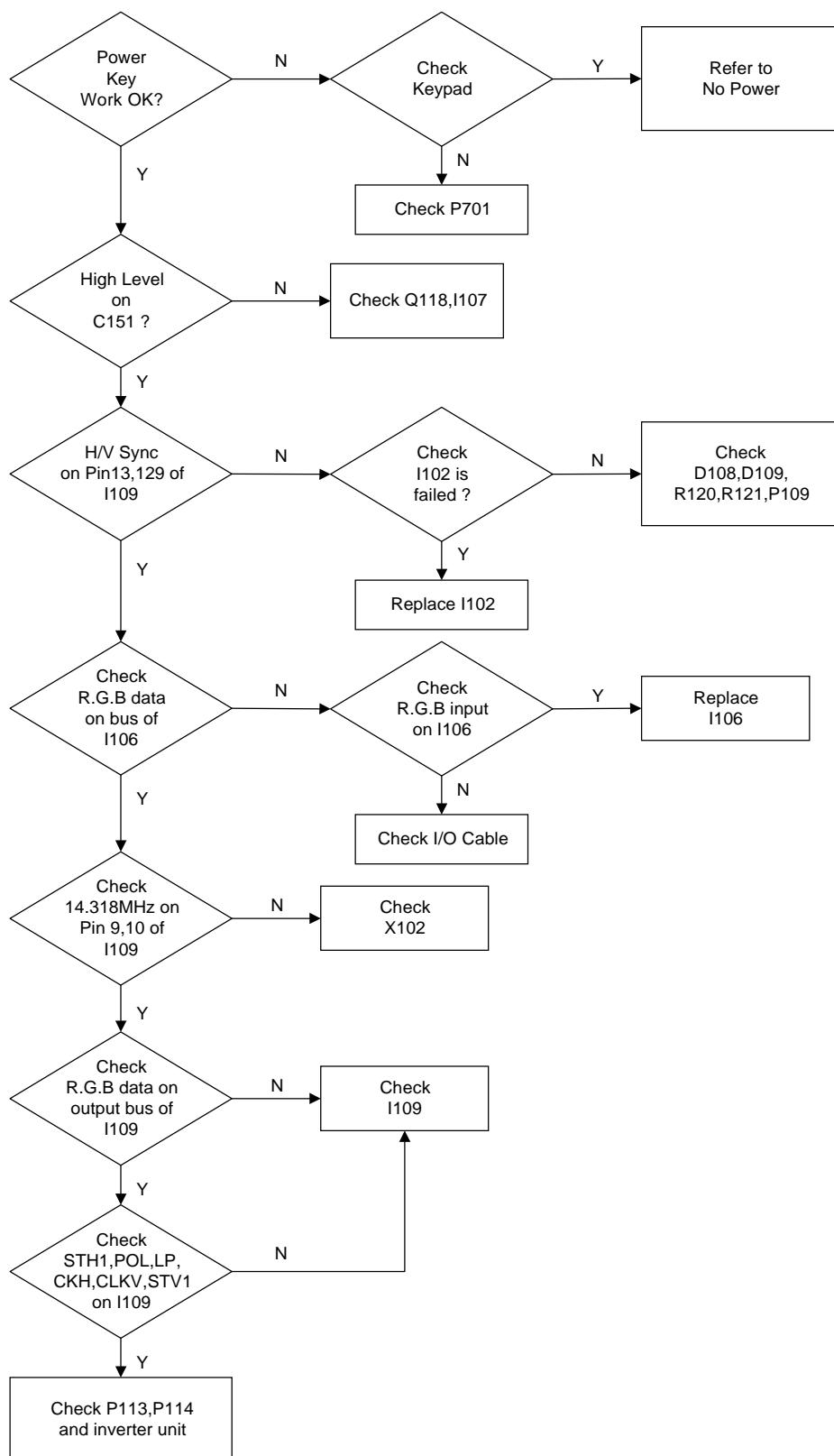
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10.2. MCU NO FUNCTION



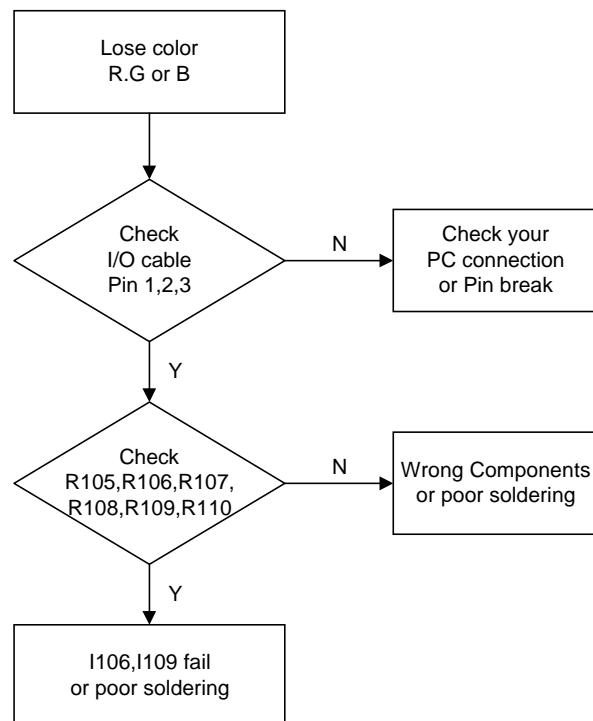
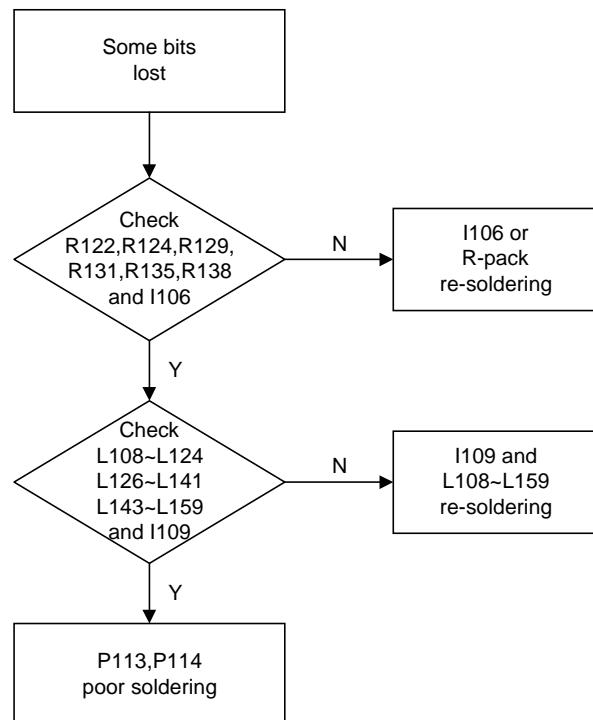
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10.3. NO DISPLAY



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10.4. LOSE COLOR



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11. ADJUSTMENT

11.1. ADJUSTMENT CONDITIONS AND PRECAUTIONS

1. Approximately 30 minutes should be allowed for warm up before proceeding.
2. Adjustments should be undertaken only on those necessary elements since most of them have been carefully preset at the factory.
3. ESD protection is needed before adjustment.

11.2. MAIN ADJUSTMENTS

NO.	FUNCTION	DESIGNATION
1.	V-com Voltage	R281
2.	Eeprom Initial	Function Key
3.	White Balance	Function Key
4.	Geometry	Function Key

11.3. ALIGNMENT PROCEDURES

Adjustment Conditions and Precautions:

- (A). Power supply voltage:
AC 110/120V \pm 10% 60 Hz \pm 5%, AC 220/240V \pm 10% 50 Hz \pm 5%.
- (B). Warm up time:
The display must be power ON for at least 30 minutes at full white pattern before starting alignments.
This is especially critical in color temperature and white balance adjustments.
- (C). Signals: reference the front detail specifications and timing table.
Video : reference the front detail specifications.

1. Adjustment of V-com Voltage:

- A. Timing : 1024x768@60Hz.
- B. Pattern : The picture of “ Shut down windows” or Full screen pixel ON/OFF pattern.
- C. Adjust R281 to let the center of the screen no flash.

2. Eeprom Initial:

- A. Timing : 1024x768@60Hz.
- B. Pattern : Cross hatch.
- A. Switch off the power and press the “▲” and “2” key simultaneously, then switch on the power. At this time we can enter into the factory mode when press the “1”key.
- D. Select the “EEPROM INIT” item and press “2”key to reset the Eeprom.

3. White Balance Adjustment :

- A. Timing : 1024x768@60Hz.
- B. Pattern : Full white.
- C. Set CA110 color analizer at the center of screen and along a perpendicular to the screen at 20cm from the display.
- D. Move “▼” key to select the “ WHITE BALANCE” item in the factory mode and press “2”key, then the white balance will be auto adjusted.
- E. Color temperature verification: (Set Brightness and Contrast to Maximum)

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- (1) 6500K verify : press “▼”, “▲” key to move cursor to 6500K at factory mode and press ““ key, and then check the color temperature is

$$x=0.310 \pm 0.03$$

$$y=0.330 \pm 0.03$$

$$Y \geq 200 \text{ cd/m}^2$$

- (2) 9300K verify : press “▼”, “▲” key to move cursor to 9300K at

factory mode and press ““ key, and then check the color temperature is

$$x=0.283 \pm 0.03$$

$$y=0.298 \pm 0.03$$

4. Geometry:

- A. Pattern : Cross hatch
- B. Change each mode on the timing table in turns and execute the “Auto Adjust “ function on the OSD menu , then all the data of the each mode will be auto saved after finish the “Auto Adjust “ function.
- C. Until all of modes are adjusted, press ““ to exit OSD menu and switch power off to exit factory mode.

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12. ELECTRICAL PARTS LIST

When you place a parts order, be sure to indicate the following data on the order:

- Location No.
- Parts No.
- Description

LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION			REMARK
MAIN P.C.BOARD							
C101		2336347601	CAP,MINI ELE105'C	CE04W	47.000UF	16V	M
C102		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C103		2336310701	CAP,MINI ELE105'C	CE04W	100.000UF	16V	M
C104		2346110296	CAP,CHIP 125'C	1608X7R	1000.000PF	50V	K
C105		2346110296	CAP,CHIP 125'C	1608X7R	1000.000PF	50V	K
C106		2336347601	CAP,MINI ELE105'C	CE04W	47.000UF	16V	M
C107		2341122096	CAP,CHIP 125'C	1608COG	22.000PF	50V	J
C108		2341122096	CAP,CHIP 125'C	1608COG	22.000PF	50V	J
C109		2341122096	CAP,CHIP 125'C	1608COG	22.000PF	50V	J
C110		2336347601	CAP,MINI ELE105'C	CE04W	47.000UF	16V	M
C111		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C112		2346110296	CAP,CHIP 125'C	1608X7R	1000.000PF	50V	K
C113		2341147096	CAP,CHIP 125'C	1608COG	47.000PF	50V	J
C114		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C115		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C116		2336310701	CAP,MINI ELE105'C	CE04W	100.000UF	16V	M
C117		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C118		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C119		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C120		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C121		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C122		2336310701	CAP,MINI ELE105'C	CE04W	100.000UF	16V	M
C123		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C124		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C125		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C134		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C135		2346247396	CAP,CHIP 125'C	0603X7R	0.047UF	25V	K
C136		2346247396	CAP,CHIP 125'C	0603X7R	0.047UF	25V	K
C137		2346247396	CAP,CHIP 125'C	0603X7R	0.047UF	25V	K
C138		2346110296	CAP,CHIP 125'C	1608X7R	1000.000PF	50V	K
C140		2341122096	CAP,CHIP 125'C	1608COG	22.000PF	50V	J
C141		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C142		2336310701	CAP,MINI ELE105'C	CE04W	100.000UF	16V	M
C143		2346182296	CAP,CHIP 125'C	1608X7R	8200.000PF	50V	K
C144		2346382396	CAP,CHIP 105'C	0603X7R	0.082UF	16V	K
C145		2336347601	CAP,MINI ELE105'C	CE04W	47.000UF	16V	M
C147		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C148		2341122096	CAP,CHIP 125'C	1608COG	22.000PF	50V	J
C149		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C150		2330100301	CAP,MINI ELE	CE1000u	/6.3V 8 φ X11 105	'C	
C151		2333610601	CAP,MINI ELE 105'C	CE04W	10.000UF	50V	M
C152		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C153		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C154		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C155		2346122196	CAP,CHIP 125'C	1608X7R	220.000PF	50V	K
C156		2346122196	CAP,CHIP 125'C	1608X7R	220.000PF	50V	K
C157		2346122196	CAP,CHIP 125'C	1608X7R	220.000PF	50V	K
C158		2346122196	CAP,CHIP 125'C	1608X7R	220.000PF	50V	K
C159		2346122196	CAP,CHIP 125'C	1608X7R	220.000PF	50V	K
C160		2346122196	CAP,CHIP 125'C	1608X7R	220.000PF	50V	K
C161		2346122196	CAP,CHIP 125'C	1608X7R	220.000PF	50V	K
C162		2346133196	CAP,CHIP 125'C	1608X7R	330.000PF	50V	K
C163		2333610501	CAP,MINI ELE 105'C	CE04W	1.000UF	50V	M
C164		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z

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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION			REMARK
C165		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C166		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C167		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C168		2336310701	CAP,MINI ELE105'C	CE04W	100.000UF	16V	M
C169		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C170		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C171		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C172		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C173		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C174		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C175		2336310701	CAP,MINI ELE105'C	CE04W	100.000UF	16V	M
C176		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C177		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C178		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C179		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C180		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C181		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C182		2336310701	CAP,MINI ELE105'C	CE04W	100.000UF	16V	M
C183		2336322701	CAP,MINI ELE105'C	CE04W	220.000UF	16V	M
C185		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C186		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C187		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C188		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C189		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C190		2336310701	CAP,MINI ELE105'C	CE04W	100.000UF	16V	M
C191		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C192		2336310701	CAP,MINI ELE105'C	CE04W	100.000UF	16V	M
C193		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C194		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C195		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C196		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C197		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C198		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C199		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C200		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C201		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C202		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C203		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C204		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C205		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C206		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C207		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C208		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C209		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C210		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C211		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C212		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C213		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C214		2336310701	CAP,MINI ELE105'C	CE04W	100.000UF	16V	M
C215		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C216		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C217		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C218		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C219		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C220		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C221		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C222		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C223		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C224		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C225		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C226		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C227		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C228		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C229		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J

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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION			REMARK
C230		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C231		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C232		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C233		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C234		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C235		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C236		2336347601	CAP,MINI ELE105'C	CE04W	47.000UF	16V	M
C237		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C238		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C239		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C240		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C243		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C244		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C245		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C246		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C247		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C248		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C249		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C250		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C252		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C253		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C254		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C255		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C256		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C257		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C258		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C259		2341133096	CAP,CHIP 125'C	1608COG	33.000PF	50V	J
C262		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C263		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C264		2333610601	CAP,MINI ELE 105'C	CE04W	10.000UF	50V	M
C267		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C268		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C269		2333610601	CAP,MINI ELE 105'C	CE04W	10.000UF	50V	M
C312		2336322701	CAP,MINI ELE105'C	CE04W	220.000UF	16V	M
C313		2333610601	CAP,MINI ELE 105'C	CE04W	10.000UF	50V	M
C314		2336310701	CAP,MINI ELE105'C	CE04W	100.000UF	16V	M
C315		2333610601	CAP,MINI ELE 105'C	CE04W	10.000UF	50V	M
C316		2333610601	CAP,MINI ELE 105'C	CE04W	10.000UF	50V	M
C317		2333610601	CAP,MINI ELE 105'C	CE04W	10.000UF	50V	M
C318		2333610601	CAP,MINI ELE 105'C	CE04W	10.000UF	50V	M
C319		2336322701	CAP,MINI ELE105'C	CE04W	220.000UF	16V	M
C320		2333610601	CAP,MINI ELE 105'C	CE04W	10.000UF	50V	M
C321		2333610501	CAP,MINI ELE 105'C	CE04W	1.000UF	50V	M
C322		2333610501	CAP,MINI ELE 105'C	CE04W	1.000UF	50V	M
C323		2336310701	CAP,MINI ELE105'C	CE04W	100.000UF	16V	M
C325		2333610601	CAP,MINI ELE 105'C	CE04W	10.000UF	50V	M
C326		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z
C327		2346110396	CAP,CHIP 125'C	1608X7R	0.010UF	50V	K
C328		2346122396	CAP,CHIP 125'C	1608X7R	0.022UF	50V	K
C329		2341122096	CAP,CHIP 125'C	1608COG	22.000PF	50V	J
C330		2333610501	CAP,MINI ELE 105'C	CE04W	1.000UF	50V	M
C331		2336322701	CAP,MINI ELE105'C	CE04W	220.000UF	16V	M
C332		2333610601	CAP,MINI ELE 105'C	CE04W	10.000UF	50V	M
C333		2336310701	CAP,MINI ELE105'C	CE04W	100.000UF	16V	M
C338		2333610601	CAP,MINI ELE 105'C	CE04W	10.000UF	50V	M
C339		2333610601	CAP,MINI ELE 105'C	CE04W	10.000UF	50V	M
C340		2333610601	CAP,MINI ELE 105'C	CE04W	10.000UF	50V	M
C342		2341122096	CAP,CHIP 125'C	1608COG	22.000PF	50V	J
D105		2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5φ	TEMIC GS08		
D106		2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5φ	TEMIC GS08		
D107		2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5φ	TEMIC GS08		
D108		2364503996	DIODE,ZENER SMD	BZV55-C5V6	PHILIPS		
D109		2364503996	DIODE,ZENER SMD	BZV55-C5V6	PHILIPS		
D110		2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5φ	TEMIC GS08		

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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
D111		2364300896	DIODE,Schottky(SMD)	EP05Q04-TE8L 0.4A/40V	NI
D112		2364300896	DIODE,Schottky(SMD)	EP05Q04-TE8L 0.4A/40V	NI
D113		2364300896	DIODE,Schottky(SMD)	EP05Q04-TE8L 0.4A/40V	NI
D114		2364300896	DIODE,Schottky(SMD)	EP05Q04-TE8L 0.4A/40V	NI
D115		2364300896	DIODE,Schottky(SMD)	EP05Q04-TE8L 0.4A/40V	NI
D116	RA	2364201496	DIODE,RECT(SMD)	EC10QS04-TE12L	NI
D116	RB	2364301296	DIODE,Schottky(SMD)	SSM14 CHENMKO	SMA
D117		2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 φ TEMIC GS08	
D118		2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 φ TEMIC GS08	
D120	RA	2364201496	DIODE,RECT(SMD)	EC10QS04-TE12L	NI
D120	RB	2364301296	DIODE,Schottky(SMD)	SSM14 CHENMKO	SMA
D126		2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 φ TEMIC GS08	
D127		2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 φ TEMIC GS08	
D129		2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 φ TEMIC GS08	
D130		2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 φ TEMIC GS08	
D131		2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 φ TEMIC GS08	
D132		2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 φ TEMIC GS08	
F101	RA	2213625801	FUSE SMD	0.25A 50V KMD025 0603	DAITO
F101	RB	2213625802	FUSE SMD	0.25A 32V LF-0434.250	LITTEL
F102	RA	2213625801	FUSE SMD	0.25A 50V KMD025 0603	DAITO
F102	RB	2213625802	FUSE SMD	0.25A 32V LF-0434.250	LITTEL
II01		2365807196	IC,LINEAR(SMD)	AMC1117-3.3ST	ADD TO223
II02	RA	2365908396	IC,DIGITAL SMD	N74F14D	PHILIPS SO14
II02	RB	2365908496	IC,DIGITAL SMD	74F14SCX	FAIRCHILD SO14
II03		2365412600	IC,DIGITAL	24LC21A/P	MICROCHIP
II04	RA	2365804796	IC,LINEAR(SMD)	XC62FP3302PR	TOREX SOT-89
II04	RB	2365805796	IC,LINEAR(SMD)	RT9161-33CX	RICHTEK SOT-89
II05	RA	2365804796	IC,LINEAR(SMD)	XC62FP3302PR	TOREX SOT-89
II05	RB	2365805796	IC,LINEAR(SMD)	RT9161-33CX	RICHTEK SOT-89
II06		2365919496	IC,DIGITAL SMD	AD9883AKST-110	ANALOG DEVICES
II07	RA	2365920396	IC,DIGITAL SMD	W78E62BP-40	WINBOND PLCC44
II07	RB	2365923796	IC,DIGITAL SMD	SM2965C40J	SYNCMOS 44PLCC
II08		2365316200	IC,LINEAR	24LC16B	MICROCHI
II09		2365921296	IC,DIGITAL SMD	T0946XLS	TRUMPION LQFP160
II10	RA	2365804696	IC,LINEAR(SMD)	XC62FP2502PR	TOREX SOT-89
II10	RB	2365805896	IC,LINEAR(SMD)	RT9161-25CX	RICHTEK SOT-89
II11		2365922796	IC,DIGITAL SMD	T8575D	TRUMPION SO16
II18		2365807396	IC,LINEAR(SMD)	AIC1526-1	AIC SO-8
II19		2365807296	IC,LINEAR(SMD)	AIC1341CS	AIC SO16
II20	RA	2365319391	IC,LINEAR	TL431CLP	TI
II21	RA	2365319391	IC,LINEAR	TL431CLP	TI
L102		2379620196	BEAD,HI-IMPEDANCE	3216MZ 200.00OHM	I<300mA
L103		2379620196	BEAD,HI-IMPEDANCE	3216MZ 200.00OHM	I<300mA
L104		2379101495	FERRITE CORE	3.5X9X0.8	
L105		2379620196	BEAD,HI-IMPEDANCE	3216MZ 200.00OHM	I<300mA
L106		2379620196	BEAD,HI-IMPEDANCE	3216MZ 200.00OHM	I<300mA
L107		2379620196	BEAD,HI-IMPEDANCE	3216MZ 200.00OHM	I<300mA
L108		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L109		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L110		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L111		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L112		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L113		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L114		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L115		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L116		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L117		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L118		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L119		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L120		2379620196	BEAD,HI-IMPEDANCE	3216MZ 200.00OHM	I<300mA
L121		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L122		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L123		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L124		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA

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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
L125		2379620196	BEAD,HI-IMPEDANCE	3216MZ 200.00OHM	I<300mA
L126		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L127		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L128		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L129		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L130		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L131		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L132		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L133		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L134		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L135		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L136		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L137		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L138		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L139		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L140		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L141		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L142		2379620196	BEAD,HI-IMPEDANCE	3216MZ 200.00OHM	I<300mA
L143		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L144		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L146		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L147		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L148		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L149		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L150		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L151		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L152		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L153		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L154		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L155		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L156		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L157		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L158		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L159		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L160		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L161		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L162		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L164		2379832096	BEAD,HI-IMPEDANCE	2012MZ 32.00OHM	I<300mA
L176		2379620196	BEAD,HI-IMPEDANCE	3216MZ 200.00OHM	I<300mA
L177		2371106400	COIL,CHOKE	LS-SH01C-016 33uH+-10%	LI SHIN
L178		2251310096	RES,CHIP 1/8	RC 1/8W 10.00	F
L180		2379620196	BEAD,HI-IMPEDANCE	3216MZ 200.00OHM	I<300mA
P101		2404301004	CONNECTOR	JST XH 5P SIDE P=2.5 OR EQUAL	
P102		2404301006	CONNECTOR	JST XH 7P SUDE P=2.5 OR EQUAL	
P103		2404301104	CONNECTOR	JST PH 5P SIDE P=2.0 OR EQUAL	
P104		2404301107	CONNECTOR	JST PH 8P SIDE P=2.0 OR EQUAL	
P105		2407310108	SOCKET,IC	2.54mmX7.62 08PIN DIP D/L	
P109		2404301005	CONNECTOR	JST XH 6P SIDE P=2.5 OR EQUAL	
P110		2407310108	SOCKET,IC	2.54mmX7.62 08PIN DIP D/L	
P111		2407390144	SOCKET,IC	1.27mmX44PIN SMD PLCC	
P112		2404301102	CONNECTOR	JST PH 3P SIDE P=2.0 OR EQUAL	
P113	RA	2407630250	SOCKET,SMD	6240-50-OR5P 0.5*50P KYOCERA	
P113	RB	2407630350	SOCKET,SMD	2206BL11250RLP 0.5*50P FRANCON	
P113	RC	2407611250	SOCKET,SMD	6702-50 50PIN P=0.5 FFC ENTRY	
P114	RA	2407630250	SOCKET,SMD	6240-50-OR5P 0.5*50P KYOCERA	
P114	RB	2407630350	SOCKET,SMD	2206BL11250RLP 0.5*50P FRANCON	
P114	RC	2407611250	SOCKET,SMD	6702-50 50PIN P=0.5 FFC ENTRY	
Q101		2360300896	XISTOR,NPN R SMD	MMBT3904	FAIRCHILD SOT23
Q102		2360100596	XISTOR,PNP R SMD	MMBT3906	FAIRCHILD SOT23
Q103		2360100596	XISTOR,PNP R SMD	MMBT3906	FAIRCHILD SOT23
Q104		2360300896	XISTOR,NPN R SMD	MMBT3904	FAIRCHILD SOT23
Q105	RA	2360301096	XISTOR,NPN R SMD	KST2907A	FAIRCHILD SOT23
Q106	RA	2360301196	XISTOR,NPN R SMD	MMBT2222A	FAIRCHILD SOT23
Q107	RA	2360100596	XISTOR,PNP R SMD	MMBT3906	FAIRCHILD SOT23

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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
Q108	RA	2361111191	XISTOR,PNP R	2SA1020(Y)	TOSHIBA
Q109	RA	2360607996	FET,N-CH(SMD)	CEA3055L	CET SOT-89
Q110	RA	2360300896	XISTOR,NPN R SMD	MMBT3904	FAIRCHILD SOT23
Q111	RA	2360607996	FET,N-CH(SMD)	CEA3055L	CET SOT-89
Q112	RA	2360607996	FET,N-CH(SMD)	CEA3055L	CET SOT-89
Q116	RA	2360301196	XISTOR,NPN R SMD	MMBT2222A	FAIRCHILD SOT23
Q117	RA	2360301096	XISTOR,NPN R SMD	KST2907A	FAIRCHILD SOT23
Q118		2360300896	XISTOR,NPN R SMD	MMBT3904	FAIRCHILD SOT23
Q119	RA	2360300896	XISTOR,NPN R SMD	MMBT3904	FAIRCHILD SOT23
Q122		2360300896	XISTOR,NPN R SMD	MMBT3904	FAIRCHILD SOT23
Q123		2360300896	XISTOR,NPN R SMD	MMBT3904	FAIRCHILD SOT23
R101		2253210396	RES,CHIP 1/10W	RC 1/10W 10.00K	J T1608
R102		2253247296	RES,CHIP 1/10W	RC 1/10W 4.70K	J T1608
R103		2253222096	RES,CHIP 1/10W	RC 1/10W 22.00	J T1608
R105		2253220196	RES,CHIP 1/10W	RC 1/10W 200.00	J T1608
R106		2253220196	RES,CHIP 1/10W	RC 1/10W 200.00	J T1608
R107		2253220196	RES,CHIP 1/10W	RC 1/10W 200.00	J T1608
R108		2251207506	RES,CHIP 1/10	RC 1/10W 75.00	F T1608
R109		2251207506	RES,CHIP 1/10	RC 1/10W 75.00	F T1608
R110		2251207506	RES,CHIP 1/10	RC 1/10W 75.00	F T1608
R111		2253210196	RES,CHIP 1/10W	RC 1/10W 100.00	J T1608
R112		2253247296	RES,CHIP 1/10W	RC 1/10W 4.70K	J T1608
R113		2253247296	RES,CHIP 1/10W	RC 1/10W 4.70K	J T1608
R114		2253210196	RES,CHIP 1/10W	RC 1/10W 100.00	J T1608
R115		2253210196	RES,CHIP 1/10W	RC 1/10W 100.00	J T1608
R118		2253210196	RES,CHIP 1/10W	RC 1/10W 100.00	J T1608
R120		2253210196	RES,CHIP 1/10W	RC 1/10W 100.00	J T1608
R121		2253210196	RES,CHIP 1/10W	RC 1/10W 100.00	J T1608
R122		2259247008	RES,CHIP NETWORKS	08P*04R 1/16W	47.00 J P=0.8
R124		2259247008	RES,CHIP NETWORKS	08P*04R 1/16W	47.00 J P=0.8
R126		2253222096	RES,CHIP 1/10W	RC 1/10W 22.00	J T1608
R127		2253222296	RES,CHIP 1/10W	RC 1/10W 2.20K	J T1608
R128		2253222196	RES,CHIP 1/10W	RC 1/10W 220.00	J T1608
R129		2259247008	RES,CHIP NETWORKS	08P*04R 1/16W	47.00 J P=0.8
R130		2253200096	RES,CHIP 1/10W	RC 1/10W 0.00	J T1608
R131		2259247008	RES,CHIP NETWORKS	08P*04R 1/16W	47.00 J P=0.8
R133		2253200096	RES,CHIP 1/10W	RC 1/10W 0.00	J T1608
R135		2259247008	RES,CHIP NETWORKS	08P*04R 1/16W	47.00 J P=0.8
R136		2253200096	RES,CHIP 1/10W	RC 1/10W 0.00	J T1608
R137		2253222296	RES,CHIP 1/10W	RC 1/10W 2.20K	J T1608
R138		2259247008	RES,CHIP NETWORKS	08P*04R 1/16W	47.00 J P=0.8
R139		2253247096	RES,CHIP 1/10W	RC 1/10W 47.00	J T1608
R140		2253210196	RES,CHIP 1/10W	RC 1/10W 100.00	J T1608
R141		2253247096	RES,CHIP 1/10W	RC 1/10W 47.00	J T1608
R142		2251227016	RES,CHIP 1/10	RC 1/10W 2.70K	F
R143		2253210196	RES,CHIP 1/10W	RC 1/10W 100.00	J T1608
R145		2253247096	RES,CHIP 1/10W	RC 1/10W 47.00	J T1608
R146		2253210296	RES,CHIP 1/10W	RC 1/10W 1.00K	J T1608
R147		2253247296	RES,CHIP 1/10W	RC 1/10W 4.70K	J T1608
R148		2253247296	RES,CHIP 1/10W	RC 1/10W 4.70K	J T1608
R149		2253247296	RES,CHIP 1/10W	RC 1/10W 4.70K	J T1608
R150		2253210296	RES,CHIP 1/10W	RC 1/10W 1.00K	J T1608
R151		2253210296	RES,CHIP 1/10W	RC 1/10W 1.00K	J T1608
R152		2253222296	RES,CHIP 1/10W	RC 1/10W 2.20K	J T1608
R153		2253247196	RES,CHIP 1/10W	RC 1/10W 470.00	J T1608
R154		2253247196	RES,CHIP 1/10W	RC 1/10W 470.00	J T1608
R155		2253247296	RES,CHIP 1/10W	RC 1/10W 4.70K	J T1608
R156		2253247296	RES,CHIP 1/10W	RC 1/10W 4.70K	J T1608
R157		2253247296	RES,CHIP 1/10W	RC 1/10W 4.70K	J T1608
R158		2253247296	RES,CHIP 1/10W	RC 1/10W 4.70K	J T1608
R159		2253247296	RES,CHIP 1/10W	RC 1/10W 4.70K	J T1608
R160		2253210496	RES,CHIP 1/10W	RC 1/10W 100.00K	J T1608
R161		2253210396	RES,CHIP 1/10W	RC 1/10W 10.00K	J T1608
R162		2253247296	RES,CHIP 1/10W	RC 1/10W 4.70K	J T1608

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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION			REMARK
R164		2253247296	RES,CHIP 1/10W	RC 1/10W	4.70K	J	T1608
R165		2253247296	RES,CHIP 1/10W	RC 1/10W	4.70K	J	T1608
R167		2253247296	RES,CHIP 1/10W	RC 1/10W	4.70K	J	T1608
R168		2253247296	RES,CHIP 1/10W	RC 1/10W	4.70K	J	T1608
R169		2253247296	RES,CHIP 1/10W	RC 1/10W	4.70K	J	T1608
R171		2253247296	RES,CHIP 1/10W	RC 1/10W	4.70K	J	T1608
R172		2253247296	RES,CHIP 1/10W	RC 1/10W	4.70K	J	T1608
R173		2253210196	RES,CHIP 1/10W	RC 1/10W	100.00	J	T1608
R175		2253210596	RES,CHIP 1/10W	RC 1/10W	1.00M	J	T1608
R177		2253210196	RES,CHIP 1/10W	RC 1/10W	100.00	J	T1608
R178		2253222096	RES,CHIP 1/10W	RC 1/10W	22.00	J	T1608
R180		2253210196	RES,CHIP 1/10W	RC 1/10W	100.00	J	T1608
R181		2253218196	RES,CHIP 1/10	RC 1/10W	180.00	J	T1608
R182		2253210296	RES,CHIP 1/10W	RC 1/10W	1.00K	J	T1608
R183		2253210196	RES,CHIP 1/10W	RC 1/10W	100.00	J	T1608
R184		2259247008	RES,CHIP NETWORKS	08P*04R 1/16W	47.00 J P=0.8		
R185		2253210196	RES,CHIP 1/10W	RC 1/10W	100.00	J	T1608
R186		2379880006	BEAD,HI-IMPEDANCE	2012 Z=80ohm(200MHz)			
R187		2253210196	RES,CHIP 1/10W	RC 1/10W	100.00	J	T1608
R188		2253247296	RES,CHIP 1/10W	RC 1/10W	4.70K	J	T1608
R189		2253247296	RES,CHIP 1/10W	RC 1/10W	4.70K	J	T1608
R190		2253210596	RES,CHIP 1/10W	RC 1/10W	1.00M	J	T1608
R192		2253210096	RES,CHIP 1/10W	RC 1/10W	10.00	J	T1608
R194		2253210096	RES,CHIP 1/10W	RC 1/10W	10.00	J	T1608
R249		2253210396	RES,CHIP 1/10W	RC 1/10W	10.00K	J	T1608
R250		2253210396	RES,CHIP 1/10W	RC 1/10W	10.00K	J	T1608
R251		2253200096	RES,CHIP 1/10W	RC 1/10W	0.00	J	T1608
R252		2251243216	RES,CHIP 1/10	RC 1/10W	4.32K	F	
R253		2253210496	RES,CHIP 1/10W	RC 1/10W	100.00K	J	T1608
R254		2253210296	RES,CHIP 1/10W	RC 1/10W	1.00K	J	T1608
R255		2253275296	RES,CHIP 1/10	RC 1/10W	7.50K	J	T1608
R256		2253210396	RES,CHIP 1/10W	RC 1/10W	10.00K	J	T1608
R257		2251233016	RES,CHIP 1/10	RC 1/10W	3.30K	F	T1608
R258		2253200096	RES,CHIP 1/10W	RC 1/10W	0.00	J	T1608
R259		2253210296	RES,CHIP 1/10W	RC 1/10W	1.00K	J	T1608
R260		2253210296	RES,CHIP 1/10W	RC 1/10W	1.00K	J	T1608
R261		2253210396	RES,CHIP 1/10W	RC 1/10W	10.00K	J	T1608
R262		2253236396	RES,CHIP 1/10W	RC 1/10W	36.00K	J	T1608
R263		2253200096	RES,CHIP 1/10W	RC 1/10W	0.00	J	T1608
R264		2253212396	RES,CHIP 1/10	RC 1/10W	12.00K	J	T1608
R265		2253256296	RES,CHIP 1/10W	RC 1/10W	5.60K	J	T1608
R266		2253211196	RES,CHIP 1/10	RC 1/10W	110.00	J	T1608
R267		2251220526	RES,CHIP 1/10	RC 1/10W	20.50K	F	
R269		2251233016	RES,CHIP 1/10	RC 1/10W	3.30K	F	T1608
R270		2253210496	RES,CHIP 1/10W	RC 1/10W	100.00K	J	T1608
R271		2253210496	RES,CHIP 1/10W	RC 1/10W	100.00K	J	T1608
R275		2251211516	RES,CHIP 1/10	RC 1/10W	1.15K	F	T1608
R276		2251214716	RES,CHIP 1/10	RC 1/10W	1.47K	F	T1608
R280		2253200096	RES,CHIP 1/10W	RC 1/10W	0.00	J	T1608
R281		2226510200	RES,SEMI FIX	0.3W B 1K K			
R283		2253200096	RES,CHIP 1/10W	RC 1/10W	0.00	J	T1608
R284		2253210296	RES,CHIP 1/10W	RC 1/10W	1.00K	J	T1608
R285		2253210496	RES,CHIP 1/10W	RC 1/10W	100.00K	J	T1608
R286		2251220526	RES,CHIP 1/10	RC 1/10W	20.50K	F	
R288		2253210396	RES,CHIP 1/10W	RC 1/10W	10.00K	J	T1608
R290		2251233016	RES,CHIP 1/10	RC 1/10W	3.30K	F	T1608
R291		2253210496	RES,CHIP 1/10W	RC 1/10W	100.00K	J	T1608
R292		2253282396	RES,CHIP 1/10	RC 1/10W	82.00K	J	T1608
R293		2253247296	RES,CHIP 1/10W	RC 1/10W	4.70K	J	T1608
R295		2253247296	RES,CHIP 1/10W	RC 1/10W	4.70K	J	T1608
R296		2253200096	RES,CHIP 1/10W	RC 1/10W	0.00	J	T1608
R298		2253247296	RES,CHIP 1/10W	RC 1/10W	4.70K	J	T1608
R299		2253256296	RES,CHIP 1/10W	RC 1/10W	5.60K	J	T1608
R300		2253247296	RES,CHIP 1/10W	RC 1/10W	4.70K	J	T1608

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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION			REMARK
R301		2253222296	RES,CHIP 1/10W	RC 1/10W	2.20K	J	T1608
R302		2253247296	RES,CHIP 1/10W	RC 1/10W	4.70K	J	T1608
U001		2202508802	PCB MULTILAYER	S13 MAIN FR4*4	136.5*142 2.04		
X101		2369103601	XTAL,OSC	XTAL 12MHZ	CL30P H/S		
X102		2369102901	XTAL,OSC	14.31818MHZ	AT-49 CL30P		
CON P.C.BOARD							
D701		2363703800	LED	EL-209YGW		EVERLIGHT	
P701		2404301107	CONNECTOR	JST PH 8P SIDE	P=2.0 OR EQUAL		
S701		2403702200	SWITCH,PU-TC	TSAA-2		HUAJIE	
S702		2403702200	SWITCH,PU-TC	TSAA-2		HUAJIE	
S703		2403702200	SWITCH,PU-TC	TSAA-2		HUAJIE	
S704		2403702200	SWITCH,PU-TC	TSAA-2		HUAJIE	
S705		2403702200	SWITCH,PU-TC	TSAA-2		HUAJIE	
U701		2202120100	PC BOARD	VE150-2 KEYPAD	94V0 135*15		
POWER P.C.BOARD							
C801		2300922401	CAP,MTL MINI	0.220UF	275V	M	
C802		2287247212	CAP,CER	CK45F	4700.000PF	250VAC	M
C803		2287247212	CAP,CER	CK45F	4700.000PF	250VAC	M
C806		2307422312	CAP,MTL	CF93T	0.022UF	400V	J
C807		2285168091	CAP,CER	CK45B	68.000PF	1KV	K
C808		2333647601	CAP,MINI ELE 105'C	CE04W	47.000UF	50V	M
C809		2281110491	CAP,CER	CK45B	0.100UF	50V	K
C810		2302133391	CAP,MTL	CF93M	0.033UF	100V	J
C812	RA	2330004001	CAP,MINI ELE	PS2G101MRD1832	100u/400V	ELITE	
C812	RB	2330004200	CAP,MINI ELE	CE 100uF	400V 105'C	18*30	HJC
C812	RC	2330004200	CAP,MINI ELE	CE 100uF	400V 105'C	18*30	HJC
C813		2330003501	CAP,MINI ELE	CE 1500uF/10V	M CA 105C	SANYO	
C814		2330003501	CAP,MINI ELE	CE 1500uF/10V	M CA 105C	SANYO	
C815		2330003501	CAP,MINI ELE	CE 1500uF/10V	M CA 105C	SANYO	
C817		2335210812	CAP,MINI ELE 105'C	CE04W	1000.000UF	10V	M
C819		2281110291	CAP,CER	CK45B	1000.000PF	50V	K
C820		2301310491	CAP,MTL	CF93M	0.100UF	63V	J
C822		2283122291	CAP,CER	CK45B	2200.000PF	500V	K
C823		2287247212	CAP,CER	CK45F	4700.000PF	250VAC	M
C824		2300922401	CAP,MTL MINI	0.220UF	275V	M	
D801	RA	2368502200	RECT,BRIDGE	GSIB460 4A/600V		GS	
D801	RB	2368502100	RECT,BRIDGE	KBJ4J 4A/600V		CHENMKO	
D802	RA	2363223195	DIODE,RECT	UF4007		GS	
D802	RB	2363231995	DIODE,RECT	UF4007		PEC	
D803	RA	2363223095	DIODE,RECT	UF4005		GS	
D803	RB	2363221495	DIODE,RECT	UF4005G		PEC.	
D804	RA	2363225500	DIODE,RECT	FCH20A10 20A/100V	TO-220AB		
D804	RB	2368400100	RECT,SCHOTTKY	SB20100F		PEC	
D805		2363300212	DIODE,SCHOTTKY	31DQ06		NI	
D806	RA	2363506395	DIODE,ZENER	HZ15-2 14.5-15.1V	0.5W HITACHI		
D806	RB	2363506495	DIODE,ZENER	MTZJ15C 14.35-15.09V	ROHM		
D807	RA	2363504595	DIODE,ZENER	HZ7A3 6.6V-6.9V			
D807	RB	2363516095	DIODE,ZENER	MTZJ6.2C 6.12-6.44V	ROHM		
F801		2213125207	FUSE	LITTEL 21502.5	2.5A 250V SB		
F802		2407200791	HOLDER,FUSE	FC-05C			
I801		2365327413	IC,LINEAR	KA5M0365R-YDTU		FAIRCHILD FORMI	
I802	RA	2362401800	PHOTO COUPLR	TLP621(D4-GR-LF2)		TOSHIBA	
I802	RB	2362401600	PHOTO COUPLR	TLP721F(D4-GR)		TOSHIBA	
I803	RA	2365307391	IC,LINEAR	TL431CLP		MOTOROLA	
I803	RB	2365321991	IC,LINEAR	KA431AZTA		FAIRCHILD	
L802		2379101495	FERRITE CORE	3.5X9X0.8			
L804		2371131000	COIL,CHOKE	JD156G 15UH	21.5T REF		
L805		2371157700	COIL,CHOKE	JT166S UU-10.5			
P801		2404339301	CONNECTOR	LEOCO 3951-01(V)	2PIN P=3.96		
P802		2427412613	WIRE HARNESS	JST XHP-5P*2	1007#22*5 90L		

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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION			REMARK
R801		2232610595	RES,CBN 1/2	RD 1/2W	1.00M	J	
R804		2235643403	RES,MTL 3	RS 3W	430.00K	J	
R805		2235847300	RES,MTL 5	RS 5W	47.00K	J	
R806		2239234815	RES,PRE 1/4 S	RN 1/4WS	3.48K	F	
R809		2247315095	RES,FUSE 1/2	RF 1/2W	15.00	J	
R810		2239220025	RES,PRE 1/4 S	RN 1/4WS	20.00K	F	
R811		2239247015	RES,PRE 1/4 S	RN 1/4WS	4.70K	F	
R812		2239224315	RES,PRE 1/4 S	RN 1/4WS	2.43K	F	
R813		2233410195	RES,CBN 1/4 S	RD 1/4WS	100.00	J	
R814		2239222015	RES,PRE 1/4 S	RN 1/4WS	2.20K	F	
R815		2247412195	RES,FUSE 1	RF 1W	120.00	J	
R816		2232610095	RES,CBN 1/2	RD 1/2W	10.00	J	
R817		2233410295	RES,CBN 1/4 S	RD 1/4WS	1.00K	J	
R840	RA	2229201212	THERMISTOR,PTH	SCK-103 10+-20% 3A THINKING			
R840	RB	2229400612	THERMISTOR,NTC	NTC UPPERMOST N10SP010***-K2			
R841		2233447195	RES,CBN 1/4 S	RD 1/4WS	470.00	J	
T801		2374208200	XFORMER,POWR	ERL-28 L=1.2mH HJC			
U801		2202121101	PC BOARD	MD96851 PWR 94V0 170*58.5 2.00			

AUDIO P.C.BOARD

C601		2333610591	CAP,MINI ELE 105'C	CE04W	1.000UF	50V	M
C602		2333310812	CAP,MINI ELE 105'C	CE04W	1000.000UF	16V	M
C605		2281410491	CAP,CER	CK45F	0.100UF	50V	Z
C606		2333610691	CAP,MINI ELE 105'C	CE04W	10.000UF	50V	M
C608		2291547291	CAP,MYL	CQ92M	4700.000PF	100V	K
C610		2333610691	CAP,MINI ELE 105'C	CE04W	10.000UF	50V	M
C611		2333610591	CAP,MINI ELE 105'C	CE04W	1.000UF	50V	M
C612		2291547291	CAP,MYL	CQ92M	4700.000PF	100V	K
I601		2365316300	IC,LINEAR	TDA7057AQ PHILIPS			
L601		2379101495	FERRITE CORE	3.5X9X0.8			
L603		2379101495	FERRITE CORE	3.5X9X0.8			
L604		2379101495	FERRITE CORE	3.5X9X0.8			
L605		2379101495	FERRITE CORE	3.5X9X0.8			
L606		2379101495	FERRITE CORE	3.5X9X0.8			
L607		2379101495	FERRITE CORE	3.5X9X0.8			
L608		2379101495	FERRITE CORE	3.5X9X0.8			
L609		2379101495	FERRITE CORE	3.5X9X0.8			
P603		2404371002	CONNECTOR	JST PH 3P TOP P=2.0 OR EQUAL			
P604		2404300002	CONNECTOR	JST XH 3P TOP P=2.5 OR EQUAL			
P607		2404371003	CONNECTOR	JST PH 4P TOP P=2.0 OR EQUAL			
R601		2233410395	RES,CBN 1/4 S	RD 1/4WS	10.00K	J	
R602		2235615013	RES,MTL 3	RS 3W	15.00	J	
R603		2233418495	RES,CBN 1/4 S	RD 1/4WS	180.00K	J	
R604		2233439195	RES,CBN 1/4 S	RD 1/4WS	390.00	J	
R605		2235615013	RES,MTL 3	RS 3W	15.00	J	
R606		2233430295	RES,CBN 1/4 S	RD 1/4WS	3.00K	J	
R607		2233410195	RES,CBN 1/4 S	RD 1/4WS	100.00	J	
R608		2233447295	RES,CBN 1/4 S	RD 1/4WS	4.70K	J	
R609		2233410395	RES,CBN 1/4 S	RD 1/4WS	10.00K	J	
R610		2233410195	RES,CBN 1/4 S	RD 1/4WS	100.00	J	
R611		2233447295	RES,CBN 1/4 S	RD 1/4WS	4.70K	J	
U601		2202121600	PC BOARD	166LP13 AUDIO CAM1 56*89			

AUDIO IN P.C.BOARD

L608		2379101495	FERRITE CORE	3.5X9X0.8			
P601		2405104900	JACK,1P	2SJ05402N23(BK)PHONE SINGATRON			
P602		2427412632	WIRE HARNESS	2010S 3P*2 1061#24 140L			
U602		2202119500	PC BOARD	L332 AUDIO IN 94V0 23*30			

OTHERS

L901		2379105600	FERRITE CORE	K5A RP 31*3*12 AD	CORE-TECH
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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
L902		2379105600	FERRITE CORE	K5A RP 31*3*12 AD	CORE-TECH
P951		2427130055	POWER CORD	E WALL 1.83M(71922)	
P951		2427130047	POWER CORD	E WALL 1.8M BLACK	(Black)
P961		2427501139	I/O CABLE	D15M/C6&7+GND 1.83M GE96750	
P961		2427501144	I/O CABLE	566LM D15M/C6&7 1.83M BLACK	(Black)
P962		2427700015	CORD RCA	STEREO 2547#28 1.83M GE96750	
P962		2427700016	CORD RCA	STEREO 2547#28 1.83M BLACK	(Black)
P980		2420308001	FFC CABLE	80L*25.5W*0.32T 0.3C*0.5P*50N	
P981		2420308001	FFC CABLE	80L*25.5W*0.32T 0.3C*0.5P*50N	
P982		2427412654	WIRE HARNESS	PHR-8P*2 1061#26 180L	
P983		2427412582	WIRE HARNESS	JST PHR-5P*2 2464#24*6C 260L	
P984		2407000100	SOCKET,ASSY	JT166Q14 POWER 0707-1CQ LEOCO	
P985		2427412665	WIRE HARNESS	PHR-3P*2 1007#24 350L	
U901	RA	2414500800	INVERTER	PLCD1015202	EMAX
U901	RB	2414500700	INVERTER	L0070	SAMPO
U901	RC	2414500900	INVERTER	CDA-2103H01	CHI SAM
V901		2212002300	LCD PANEL	CLAA150XG 02J	CPT
W601		2391204904	SP,DYN OVAL	8 ohm 1.5W P011F(HB18)	HIBOX